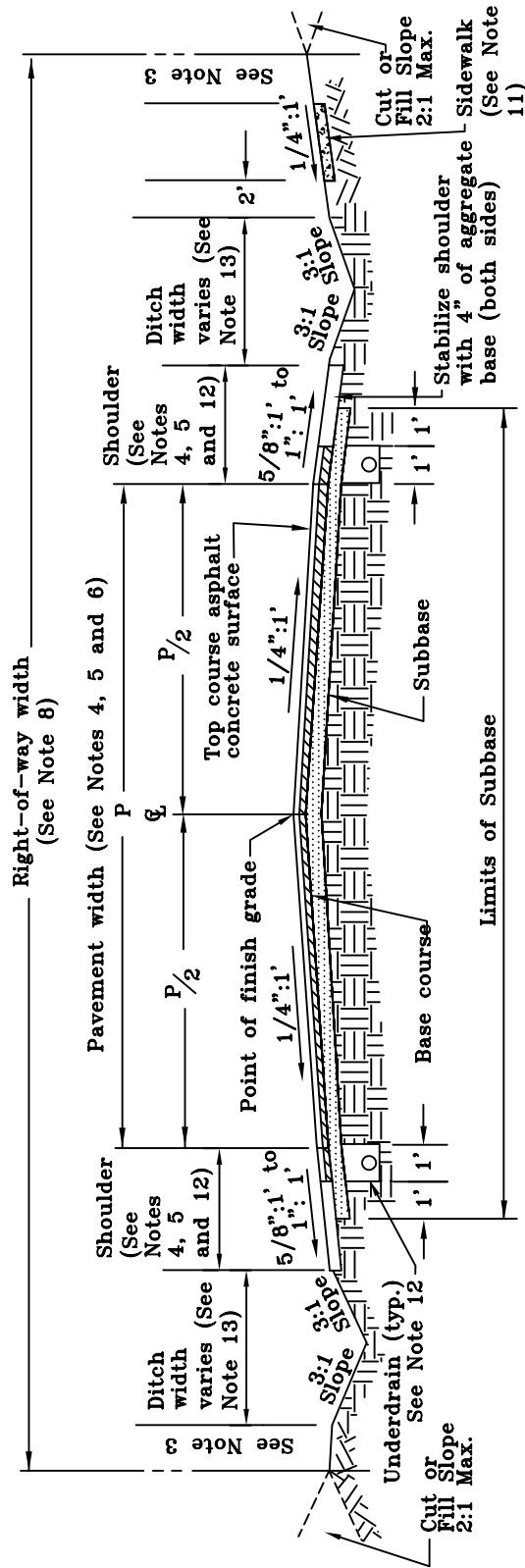


FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



NOTES

- 1) This typical section may be used in subdivisions in which the average lot size is 18,000 sf or greater on streets that have an ADT up to 5499.
- 2) For streets with projected traffic volumes over 8000 ADT, or serving heavy commercial or industrial traffic, the street shall be designed in accordance with the current VDOT Road Design Manual. Pedestrian facilities shall be provided in accordance with Section 8 of the Public Facilities Manual.
- 3) Distances between features, and distances between features and right-of-way line shall be in accordance with the current Appendix B of the VDOT Road Design Manual. VDOT will accept sidewalk, which is a minimum of 1 foot from the right-of-way line.
- 4) For streets with an ADT of 4000 or less; design speed, sight distance, centerline radius, pavement width (except as set forth in Note 6), shoulder width, grade, K values for sag and crest, and clear zone shall be in accordance with the current Appendix B of the VDOT Road Design Manual.
- 5) For streets with an ADT between 4001 and 5499, sight distance, centerline radius, shoulder width, grade, K values for sag and crest and clear zone shall be in accordance with the current VDOT Road Design Manual based on urban road criteria and a 40 mph design speed. The minimum pavement width shall be 24 feet.
- 6) The pavement width for one-way streets shall be a minimum of 18 feet.
- 7) Streets with ADTs greater than 4000 shall be superelevated in accordance with the Virginia Road Design Manual.
- 8) The required right-of-way width shall be based on containing the features to be maintained by VDOT within the right-of-way in accordance with the current VDOT Road Design Manual.
- 9) Surface, base and subbase designs shall be predicated upon a subgrade CBR of 10 or greater and shall be designed in accordance with the current VDOT Pavement Design Guide for Subdivision and Secondary Roads in Virginia.
- 10) Grades of relatively short length (up to 295'), which are on a street with a projected traffic volume up to 400 ADT, may be increased by 50% of the value upon approval by the Director and VDOT.
- 11) Sidewalk shall be provided in accordance with Section 8-0100 et seq. of the Public Facilities Manual and shall meet the standards set forth in the current Appendix B of the VDOT Road Design Manual. Sidewalk cross slope, including passing areas (full 5-foot width) and driveway crossings (3-foot width), should not exceed 2%. The sidewalk shall be a minimum of 7' from the edge of the shoulder, if no physical barrier is provided. Sidewalks along ditch section streets shall be in accordance with the current Appendix B of the VDOT Road Design Manual, on compacted subgrade, and include underdrains in accordance with VDOT UD-3. Careful consideration shall be given to drainage and sidewalk/street intersections early in the design.
- 12) Underdrains and combination underdrains shall be provided in accordance with the current VDOT Road and Bridge standards. Underdrains are required on streets with an ADT of 1000 or greater. The section of the shoulder over the underdrain shall be paved.
- 13) The ditch details (e.g. width, depth, and slope) shall be determined in accordance with Section 6 of the Public Facilities Manual and Appendix B of the VDOT Road Design Manual. Ditches may not be required on fill sections with no sidewalk, if adequate drainage facilities are located out of the right-of-way. The width of the ditch must be considered when determining the appropriate right-of-way width.

Ref. Sec. 7-0101.2,
7-0105.1, 7-0406.7B,
7-0502.3A, 7-0903.2,
Plate 22-7

Rev. 1-00, 9-01, 11-05
4-07, 2011 Reprint

STANDARD TYPICAL SECTION FOR TWO-LANE STREETS WITHOUT CURB & GUTTER (DITCH SECTION STREET)

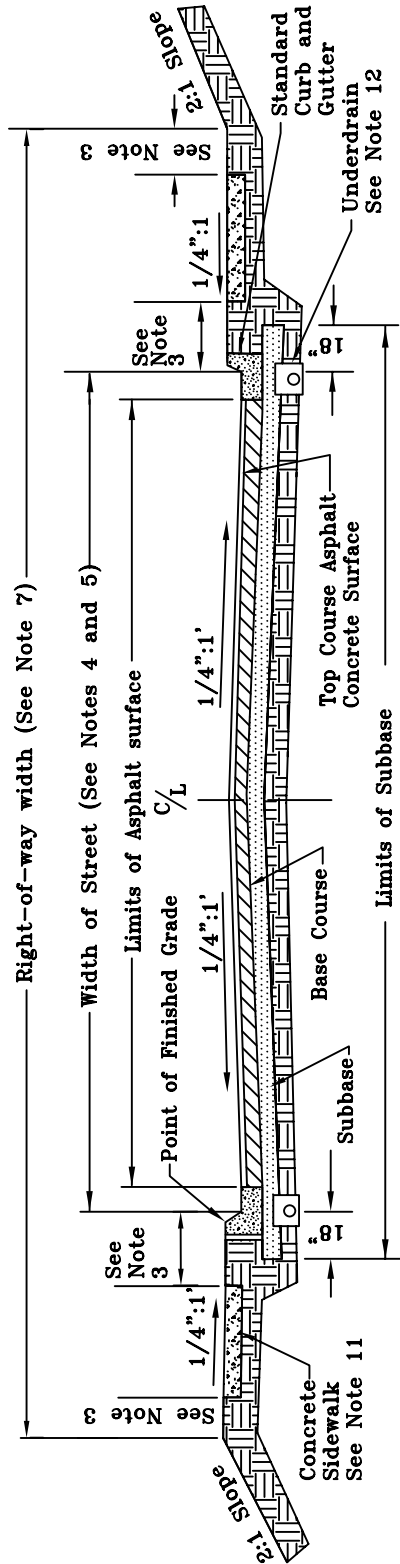
PLATE NO.

STD. NO.

1-7

TS-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



NOTES

- 1) This typical section may be used in subdivisions in which the average lot size is less than 18,000 sf on streets that have an ADT up to 5499.
- 2) For streets with projected traffic volumes over 8000 ADT, or serving heavy commercial or industrial traffic, the street shall be designed in accordance with the current VDOT Road Design Manual. Pedestrian facilities shall be provided in accordance with Section 8 of the Public Facilities Manual.
- 3) Distances between features, and distances between features and the right-of-way line shall be in accordance with the current Appendix B of the VDOT Road Design Manual. VDOT will accept sidewalk, which is a minimum of 1 foot from the right-of-way line.
- 4) For streets with an ADT of 4000 or less; design speed, sight distance, centerline radius, street width from face of curb to face of curb, grade, K values for sag and crest, and clear zone shall be in accordance with the current VDOT Road Design Manual based on urban road criteria and a 40 mph design speed. The minimum street width from face of curb to face of curb shall be 40 feet.
- 5) For streets with an ADT between 4001 and 5499; sight distance, centerline radius, grade, K values for sag and crest, and clear zone shall be in accordance with the current VDOT Road Design Manual.
- 6) Streets with an ADT greater than 4000 shall be superelevated in accordance with VDOT Road Design Manual.
- 7) The required right-of-way width shall be based on containing the features to be maintained by VDOT within the right-of-way in accordance with the current VDOT Road Design Manual.
- 8) Grades of relatively short length (up to 295 feet), which are on a street with a projected traffic volume up to 400 ADT, may be increased by 50% of the value upon approval by the Director and VDOT.
- 9) Surface, base and subbase designs shall be predicated upon a subgrade CBR of 10 or greater and shall be designed in accordance with the current VDOT Pavement Design Guide for Subdivision and Secondary Roads in Virginia.
- 10) Stone base or subbase material shall extend under the curb and gutter a minimum distance of 18\" from the face of the curb. The stone thickness under the curb and gutter shall be the pavement depth in excess of the 7\" depth of the gutter face but no less than 4\".
- 11) Sidewalk shall be provided in accordance with Section 8-0100 et seq. of the Public Facilities Manual and shall meet the standards set forth in the current Appendix B of the VDOT Road Design Manual. Sidewalk cross slope, including passing areas (full 5-foot width) and driveway crossings (3-foot width) should not exceed 2%.
- 12) Underdrains and combination underdrains shall be provided in accordance with the current VDOT Road and Bridge Standards. Underdrains are required on streets with an ADT of 1000 or greater.

Ref. Sec. 7-0101.2,
7-0103, 7-0105.1,
7-0406.7B, 7-0502.4A

Rev. 1-00, 9-01, 11-05,
10-06, 4-07, 2011
Reprint

STANDARD TYPICAL SECTION FOR UNDIVIDED STREETS WITH CURB & GUTTER

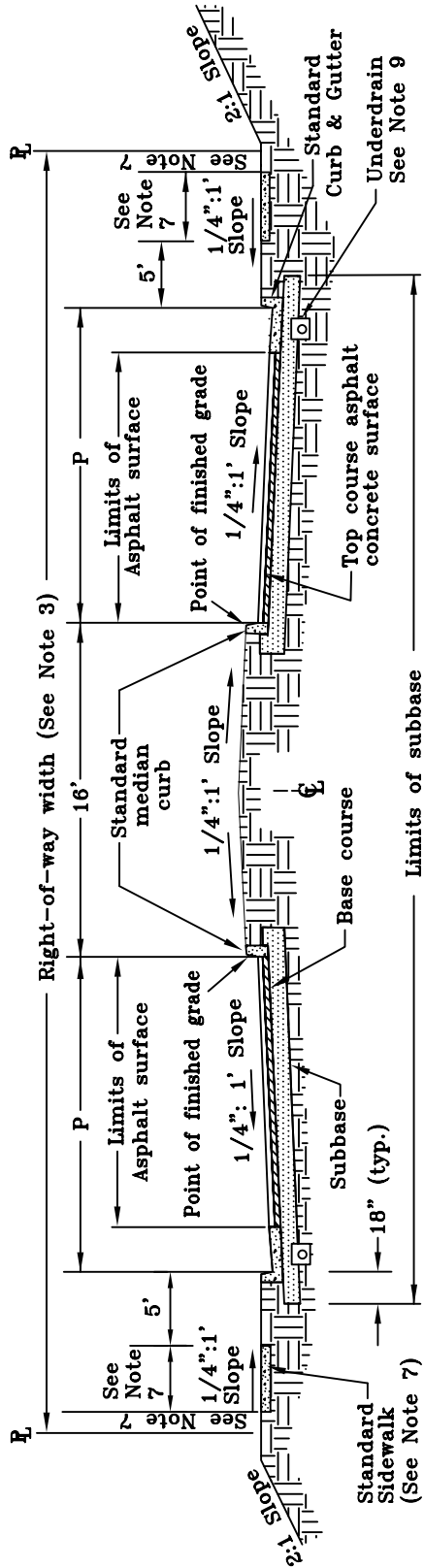
PLATE NO.

2-7

STD. NO.

TS-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



ADT	P (ft.) (face of curb to face of curb)	R/W (ft.) (See Note 3)
5500 to 8000	27	92

GENERAL NOTES AND FOOTNOTES

- 1) Street shall be superelevated in accordance with Standard TC-5 of VDOT Road and Bridge Standards.
- 2) Sight distance, centerline radius, clear zone, grade, K values for sag and crest, distance between features, and distance between features and right-of-way line shall be in accordance with the current VDOT Road Design Manual based on urban road criteria and a 45 mph design speed.
- 3) The right-of-way width shown is based on the features shown, which are to be maintained by VDOT. If additional features such as guard rail are required, the right-of-way width may change and shall accommodate all features, which are to be maintained by VDOT, in accordance with the current VDOT Road Design Manual.
- 4) Surface, base and subbase designs shall be predicated upon a subgrade CBR of 10 or greater and shall be designed in accordance with current VDOT Pavement Design Guide for Subdivision and Secondary Roads in Virginia.
- 5) Stone subbase material shall extend under the curb and gutter a minimum distance of 18" from the face of the curb. The stone thickness under the curb and gutter shall be the pavement depth in excess of the 7" depth of the gutter face but no less than 4".
- 6) 12'-wide left turn lanes shall be provided at all median crossovers. Any portion of the raised median that becomes less than 6' wide shall be constructed in concrete.
- 7) Sidewalk shall be provided in accordance with Section 8-0100 et seq. Width of sidewalk and distance between sidewalk and the right-of-way line shall be in accordance with the current Appendix B of the the VDOT Road Design Manual. VDOT will accept sidewalk, which is a minimum of 1 foot from the right-of-way line.
- 8) Streets with an ADT in excess of 4000 ADT shall be designed in accordance with VDOT Road Design Manual.
- 9) Underdrains and combination underdrains shall be provided in accordance with the current VDOT Road and Bridge Standards.

Ref. Sec. 7-0101.2,
7-0103, 7-0105.1,
7-0405.2, 7-0405.3A(2),
7-0406.7B

Rev. 1-00, 4-07, 2011
Reprint

STANDARD TYPICAL SECTION FOR MULTI-LANE STREETS WITH CURB & GUTTER

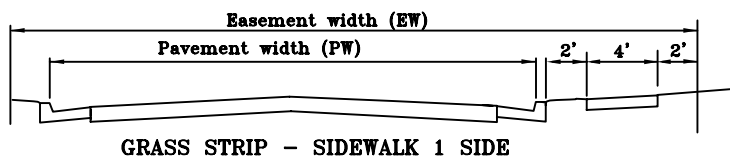
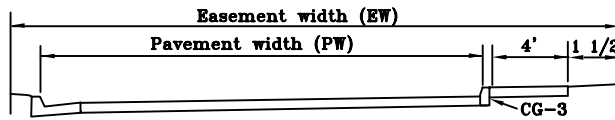
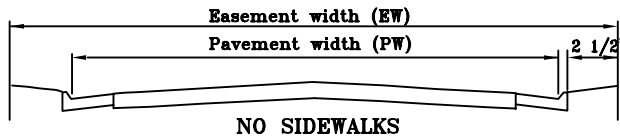
PLATE NO.

STD. NO.

3-7

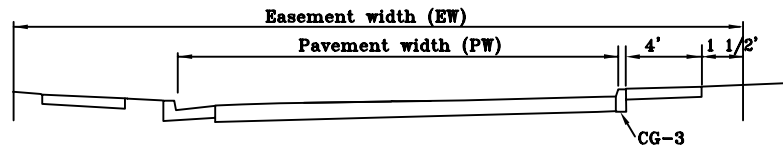
TS-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

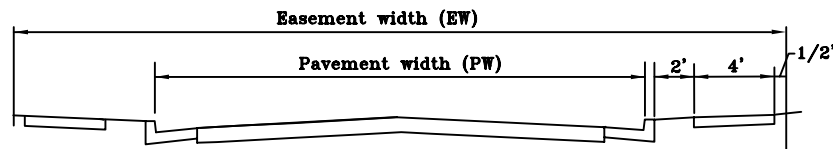


	* NO PARKING ft	NO PARKING ft	* PARKING ONE SIDE ft	PARKING ONE SIDE ft	* PARKING BOTH SIDES ft	PARKING BOTH SIDES ft
PW	24	26	30	30	36	36
EW	30	32	36	36	42	42
EW	32	N/A	38	N/A	44	N/A
EW	34	36	40	40	46	46
EW	38	40	44	44	50	50
EW	38	N/A	44	N/A	50	N/A

* Generations less than 250 TPD



ABUTTING SIDEWALK - 1 SIDE
GRASS STRIP - SIDEWALK 1 SIDE



NOTES:

1. For pavement section, see Section 7-0502.
2. Trails shall be in separate easements when provided.
3. Optional curb and gutter standards CG-6, CG-6R, CG-7, and CG-7R. Curb cut, driveway and storm structure transition details will be provided when CG-7 and CG-7R are used.
4. For single family detached condominium, single family detached (only in those zoning districts where permitted), patios and garden courts with 5 or less lots, geometrics of street may conform to pipestem lot standards. Methods and details for providing adequate turnarounds shall be as required by the Director.
5. Sidewalks and trails shall be provided in accordance with Section 8-0000 et seq.
6. For all entrances, a 3/4" lip shall be maintained across the frontage of the driveway at the gutter pan.

Ref. Sec. 7-0101.2,
7-0103, 7-0105.1,
7-0406.7B, 7-0502.1A

PRIVATE STREETS
TOWNHOUSE, PATIO,
GARDEN COURT, ETC.

PLATE NO.

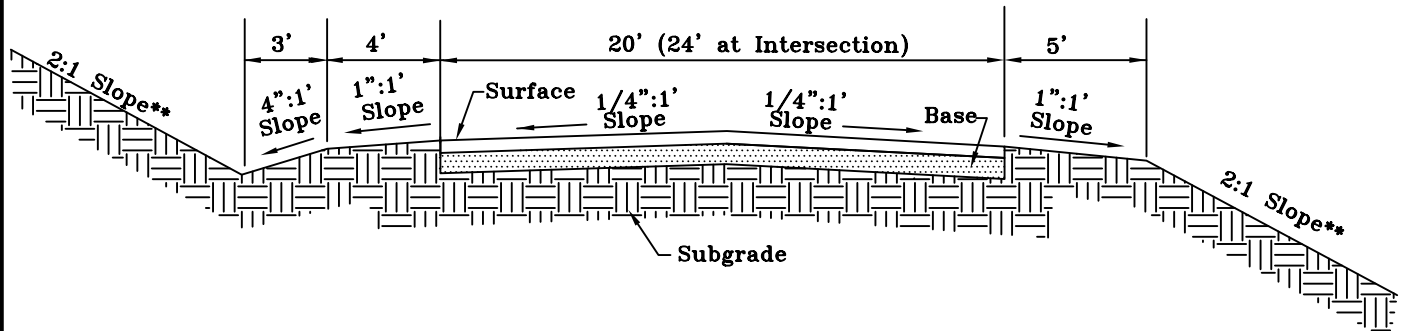
STD. NO.

4-7

TS-5A

Rev. 1-00, 2011 Reprint

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



ADT	Type of Terrain	Max. Grade %	Speed Limit MPH	Min. C/L Radius (ft.)	Min. Sight Dist. (ft.)		Pavement Width (P) (ft.)	Esmt. Width (centered on rd.) (ft.)
					Stopping	Intersection		
0-250	Rolling	9*	15	155	125	200	20	30***

This standard section is applicable to subdivisions which are approved for R-C cluster development.

This standard section is required on private streets in R-C cluster developments.

This standard is not required for private streets in a 5-acre subdivision, not subject to the subdivision ordinance.

Base course is based on a subgrade CBR value of 10. Where CBR is less than 10, 1" of base material shall be added for each point below CBR 10. Where CBR is more than 10, subbase may be reduced 1" for each 5 points above CBR-10. All special designs are subject to the approval of the Director.

A 6" Aggregate Base Course, Type I or II is required.

The surface course shall be prime coat and double seal surface treatment or prime coat and 100 LB/SY bituminous concrete, Type SM - 9.5A.

The construction must be inspected by the County.

All materials and construction of this design shall conform to the current VDOT Road and Bridge Specifications and VDOT Road and Bridge Standards.

* Max. % of grade may be increased to 15% for relatively short lengths with the approval of the Director. Pavement widths shall be increased to 24' at intersection locations.

** Slope may be increased to 1 1/2 : 1 for heights not exceeding 10', subject to approval of Director.

*** See Section 7-0101.3 for easement widths to adjoining properties that are landlocked.

Ref. Sec. 2-0102.3,
7-0101, 7-0101.2,
7-0105.1, 7-0404.6A,
7-0405.3, 7-0406.7B

Rev. 1-00, 11-05, 2-06,
4-07, 2011 Reprint

STANDARD TYPICAL SECTION R-C CLUSTER SUBDIVISION STREETS

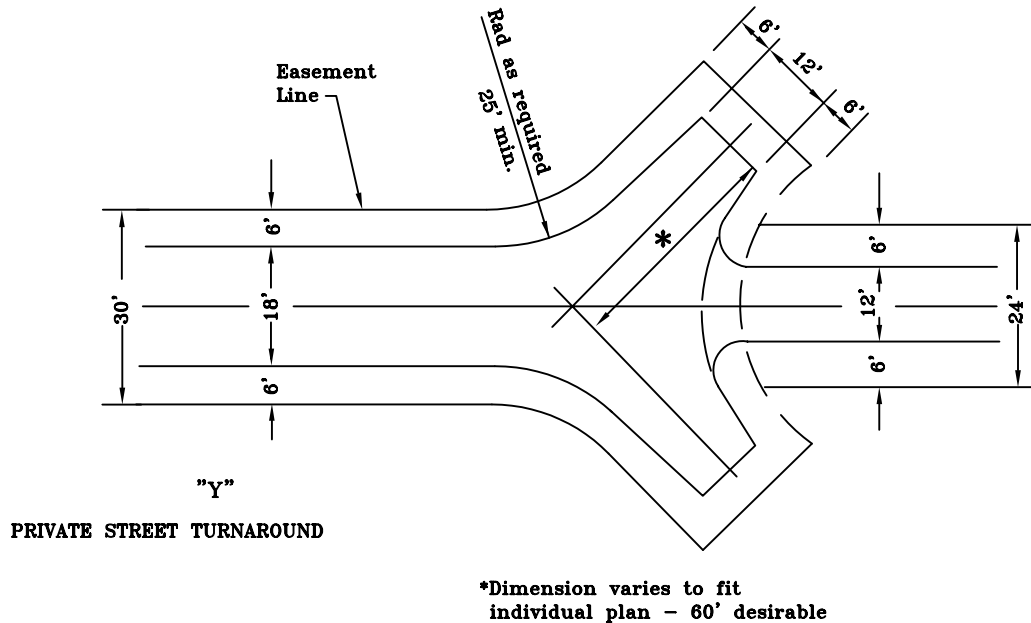
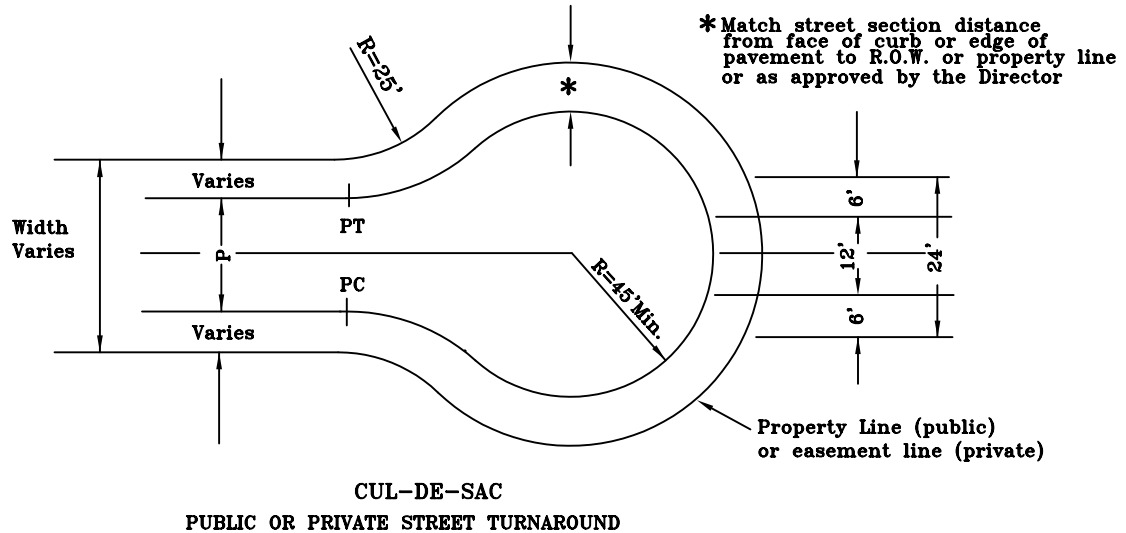
PLATE NO.

6-7

STD. NO.

TS-7

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



NOTES:

Turnarounds shall be provided at the end of all public streets, both permanent and temporary except those streets covered by the stub street criteria.

Construction methods shall conform to the Typical Street Standards as presented in this PFM.

Temporary turnarounds at ends of streets to be extended at some future date:

1. Geometrics shall conform to cul-de-sac standard.
2. Typical section shall conform to TS-1 or TS-2 Standard for subbase and base requirements. The surface shall be temporary 2-shot treatment.

Sidewalks, when required on cul-de-sac streets, shall be provided within the right-of-way and extend around the cul-de-sac to a point which is at least one-half of the distance between the PC and PT of the cul-de-sac. At the point at which the sidewalk terminates standard CG-12 shall be provided.

Sidewalk shall be provided in accordance with Section 8-0100 et seq.

Ref. Sec. 7-0101.2,
7-0103, 7-0406.7B,
7-0105.1, 7-0902.1

Rev. 1-00, 11-05,
2011 Reprint

TYPICAL STANDARD FOR CUL-DE-SAC AND "Y" TURNAROUND

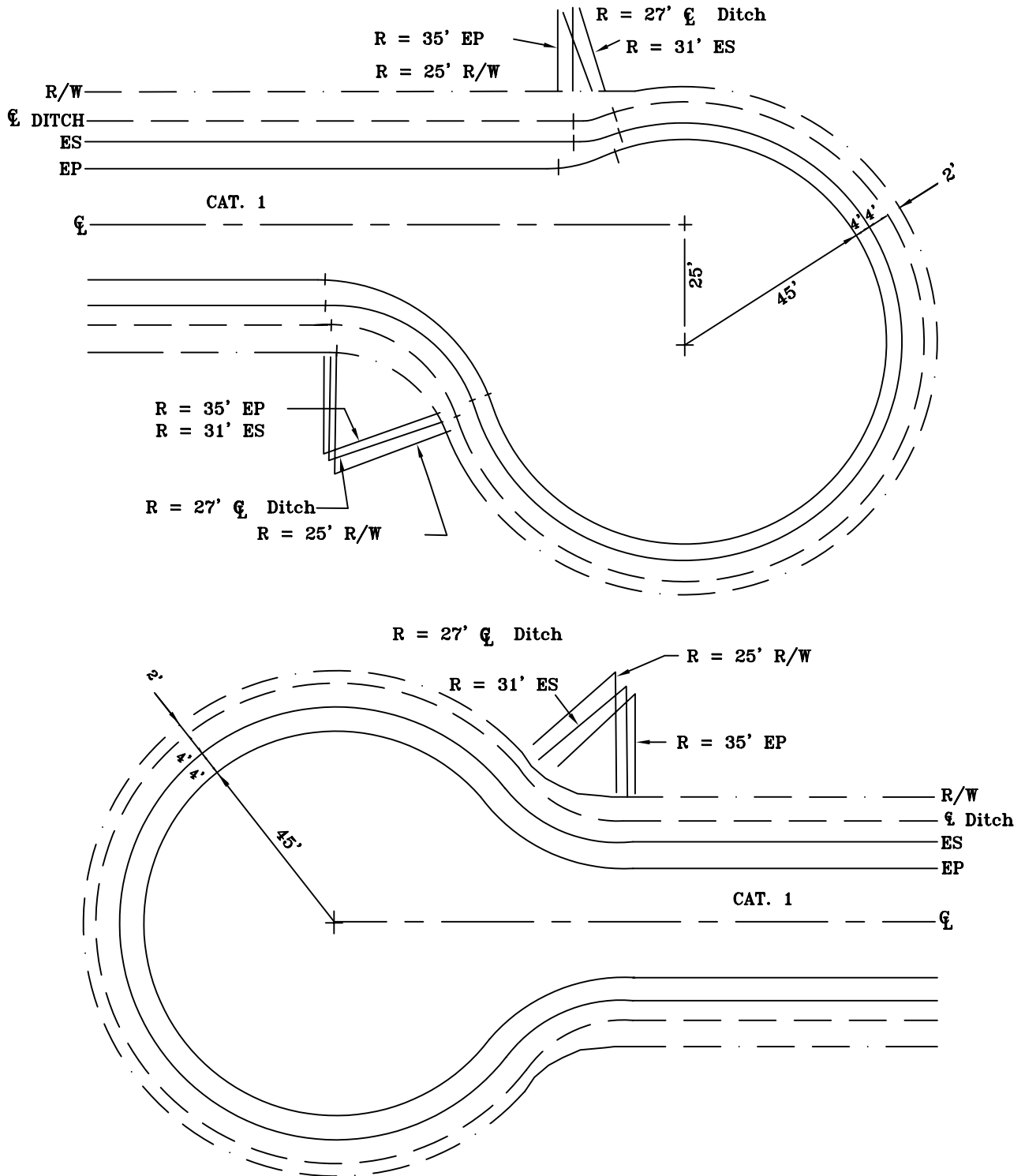
PLATE NO.

STD. NO.

7-7

TU-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-0101.2,
7-0105.1, 7-0406.7B

Rev. 1-00, 2011 Reprint

CUL-DE-SAC ON DITCH SECTION STREET - TREATMENT OF TRANSITION

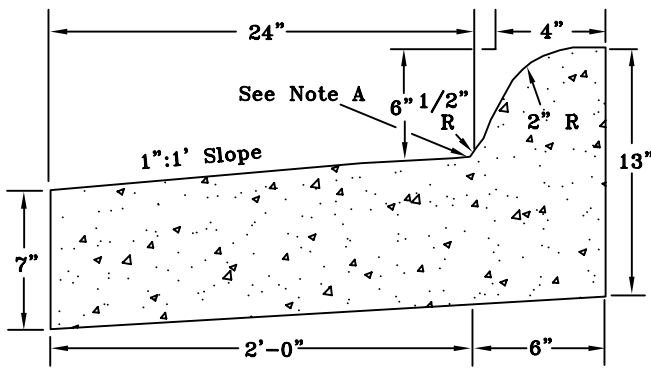
PLATE NO.

8-7

STD. NO.

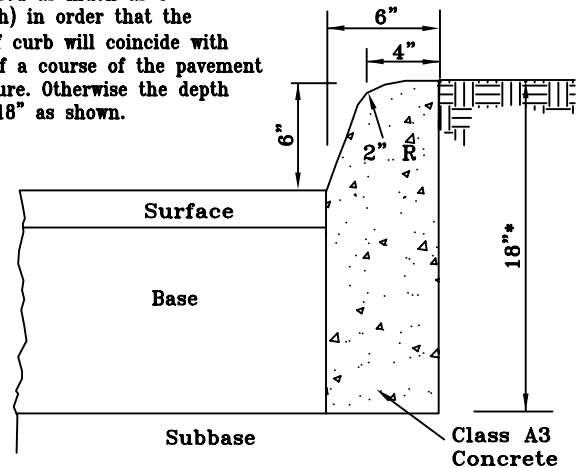
TU-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

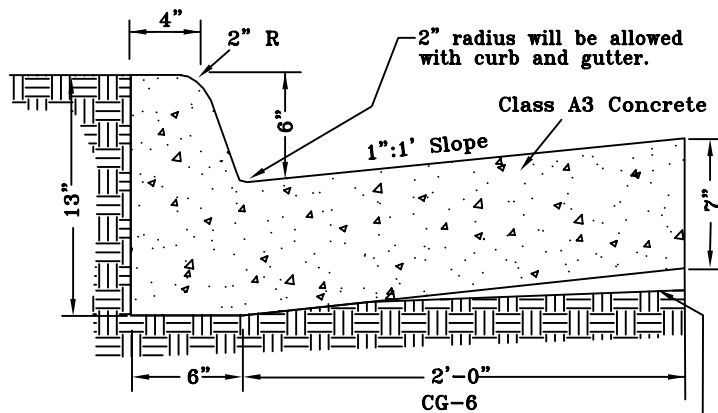


CG-6R
REVERSED CURB & GUTTER
(ONLY TO BE USED ON
PARKING LOTS)

* The depth of curb may be reduced as much as 3" (15" depth) or increased as much as 3" (21" depth) in order that the bottom of curb will coincide with the top of a course of the pavement substructure. Otherwise the depth is to be 18" as shown.

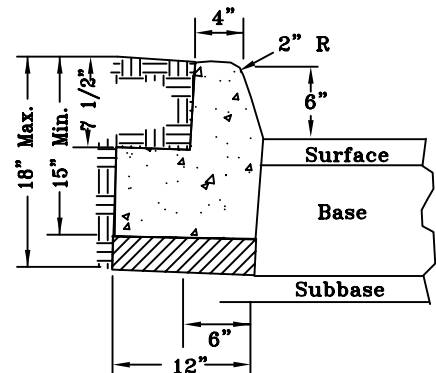


CG-2
MEDIAN CURB



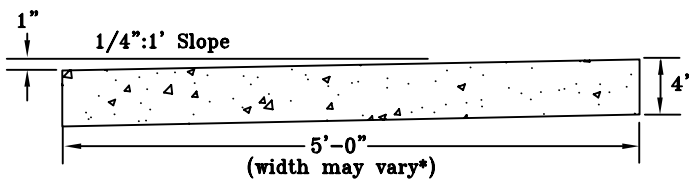
STANDARD CURB & GUTTER

The bottom of the curb and gutter may be constructed parallel to the slope of sub surface courses provided a min. depth of 7" is maintained.



ACCEPTABLE ALTERNATIVE TO CG-2
IF CURB IS EXTRUDED

Curb and gutter may be extruded at the option of the contractor and approval of the inspector.



STANDARD SIDEWALK

* Sidewalk shall be provided in accordance with Section 8-0100 et seq.

All materials and construction of this design in a R/W to be maintained by VDOT shall conform to current VDOT Road and Bridge Specifications and VDOT Road and Bridge Standards.

Note: Curb having a radius of 300' or less (along face of curb) shall be considered radial curb.

Note: CG-6R cannot be used in VDOT R/W.

Note: Subgrade for all sidewalks, curb and gutter shall be compacted to min. 95% density at optimum moisture to full width of R/W in accordance with AASHTO T99-61.

Ref. Sec. 7-0101.1,
7-0101.2, 7-0103,
7-0105.1, 7-0406.7B

Rev. 1-00, 11-05, 2011
Reprint

STANDARD COMBINATION CURB & GUTTER & SIDEWALK

PLATE NO.

STD. NO.

9-7

CGM-1

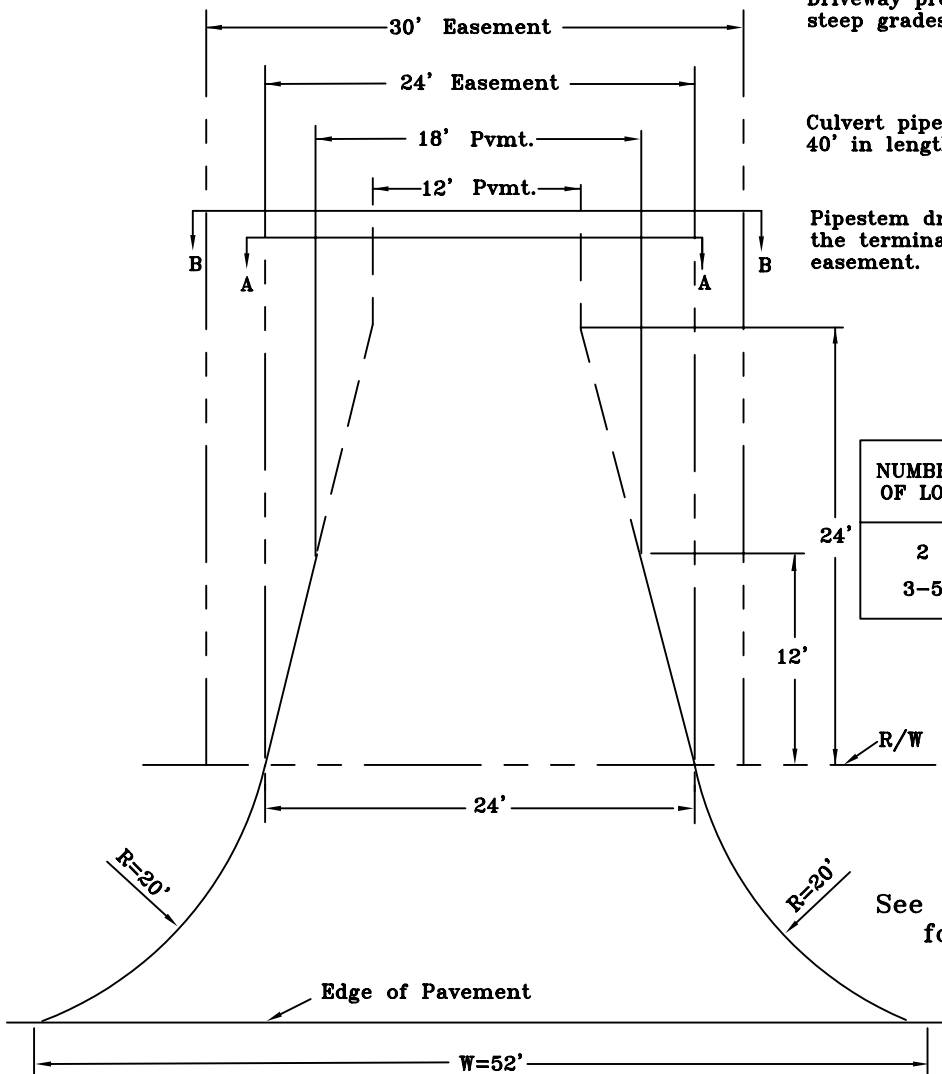
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

Driveway Clearances

Grading Plans must provide for adequate vehicular clearance for driveway approach, departure and breakover transitions. Driveway profiles are required where steep grades prevail.

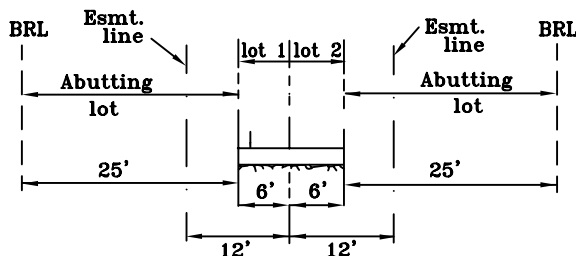
Culvert pipe, if needed, is to be 40' in length.

Pipestem driveways shall be paved to the terminal point of the driveway easement.

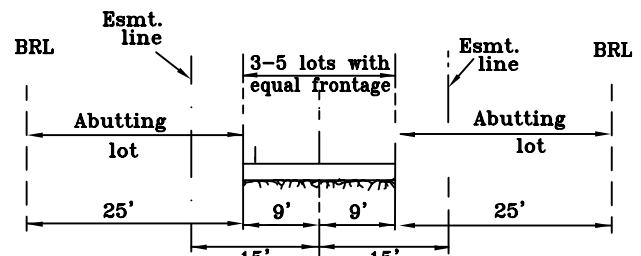


NUMBER OF LOTS	WIDTH OF EASEMENT	WIDTH OF PAVEMENT
2	24'	12'
3-5	30'	18'

See Plates 23-7 and 24-7 for paving details



SECTION A - A : 2 LOTS



SECTION B - B : 3 TO 5 LOTS

Ref. Sec. 2-0103.4,
2-0103.5, 7-0101.2,
7-0105.1, 7-0406.7B,
7-0902.1

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STANDARD ENTRANCE PIPESTEM LOTS DITCH SECTION

PLATE NO.

STD. NO.

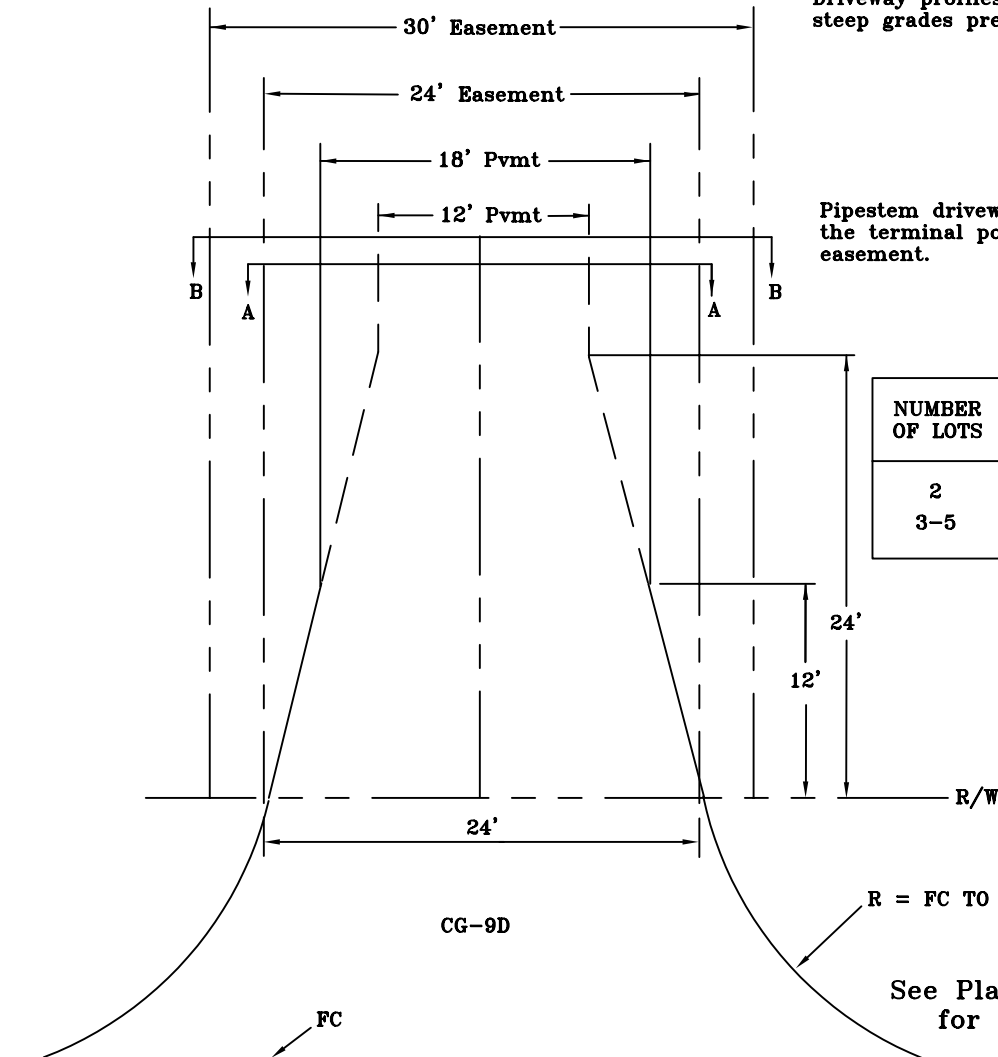
10-7

PS-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

Driveway Clearances

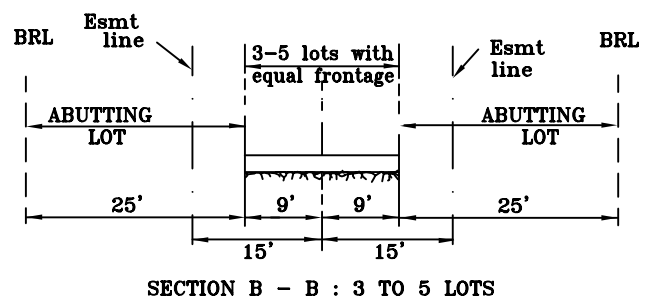
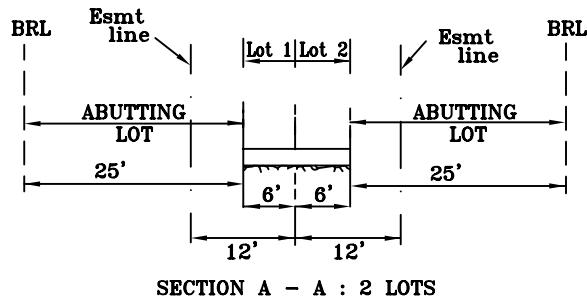
Grading Plans must provide for adequate vehicular clearance for driveway approach, departure and breakover transitions. Driveway profiles are required where steep grades prevail.



Pipestem driveways shall be paved to the terminal point of the driveway easement.

NUMBER OF LOTS	WIDTH OF EASEMENT	WIDTH OF PAVEMENT
2	24'	12'
3-5	30'	18'

See Plates 23-7 and 24-7 for paving details



Ref. Sec. 2-0103.4,
2-0103.5, 7-0101.2,
7-0103, 7-0406.7B,
7-0105.1, 7-0902.1

STANDARD ENTRANCE PIPESTEM LOTS CURB & GUTTER SECTIONS

PLATE NO.

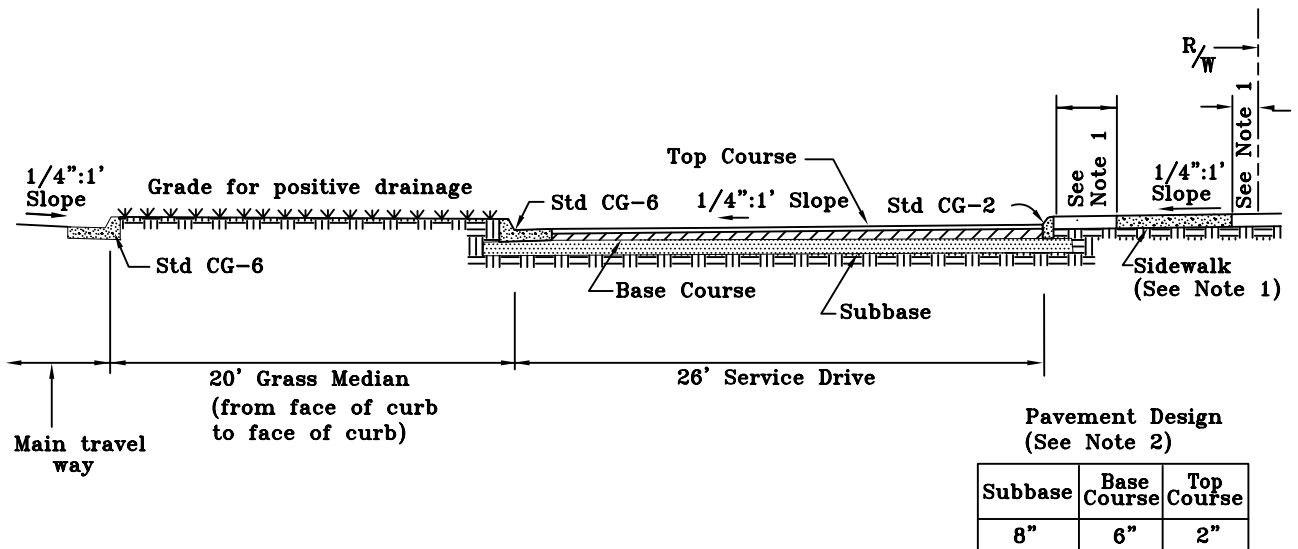
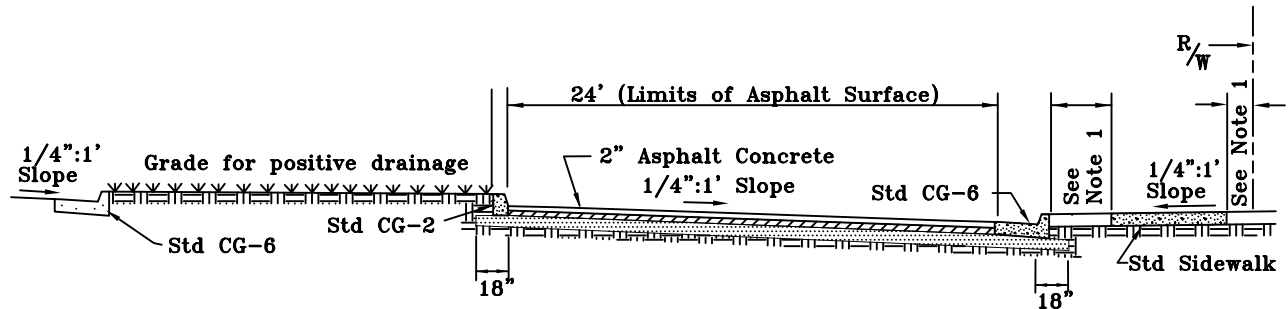
STD. NO.

11-7

PS-2

Rev. 1-00, 2011 Reprint

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



NOTES:

- Distance between back of curb to sidewalk, width of sidewalk, and distance between sidewalk and right-of-way line shall be in accordance with the current Appendix B of the VDOT Road Design Manual. VDOT will accept sidewalk, which is a minimum of 1' from the right-of-way line.
- Surface, base and subbase designs are predicated upon a subgrade CBR value which equals or exceeds a value of 10. Pavement design and materials shall be in accordance with the current VDOT Pavement Design Guide for Subdivision and Secondary Roads in Virginia.

Ref. Sec. 7-0103,
7-0104.2, 7-0105.1,
7-0406.7B

Rev. 1-00, 4-07, 2011
Reprint

STANDARD TYPICAL STREET CONSTRUCTION SECTION FOR SERVICE DRIVES WITH CURB & GUTTER

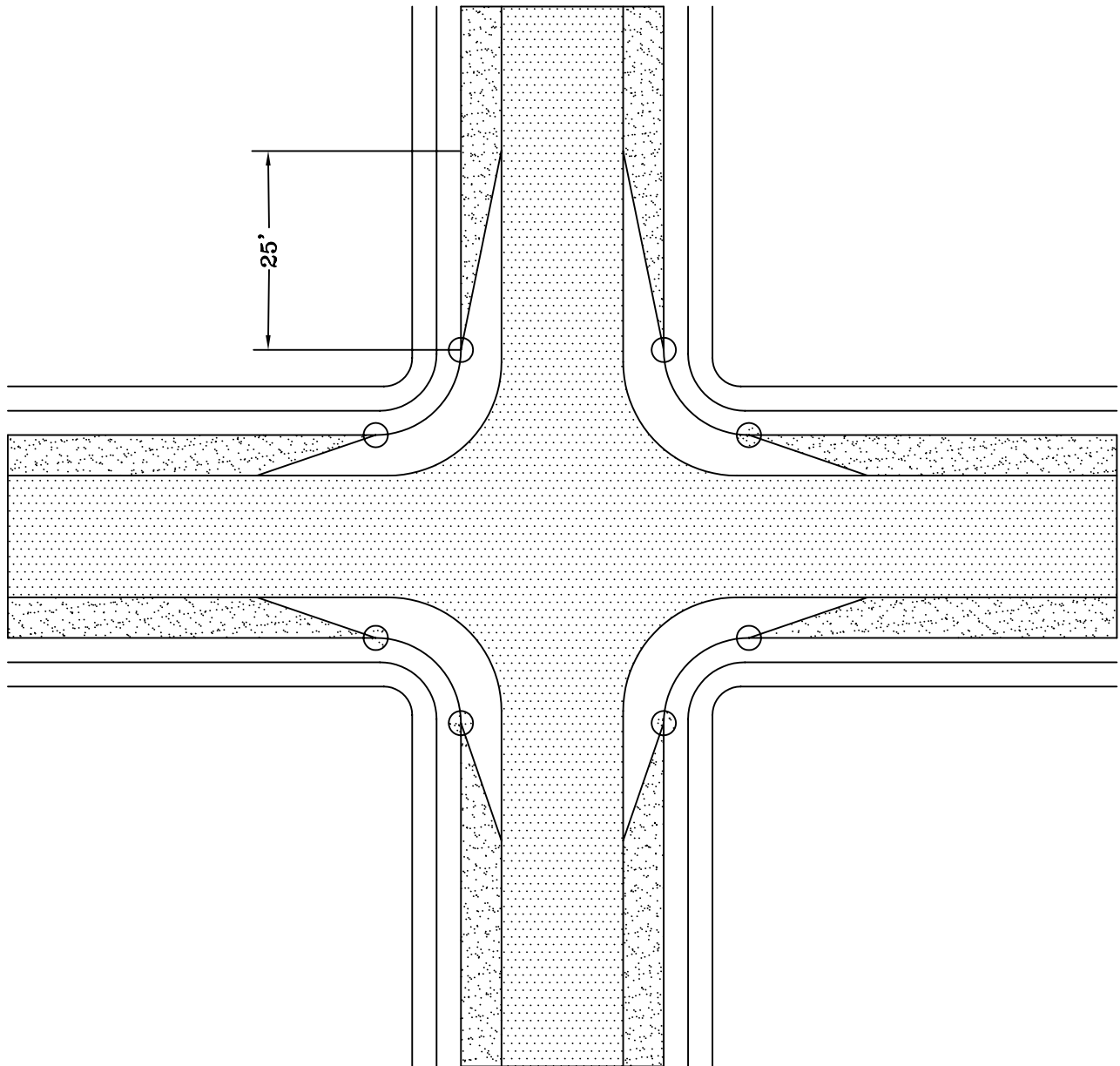
PLATE NO.

12-7

STD. NO.

TS-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



The shoulders will be paved with a min. 2-shot surface treatment throughout the intersection to each point of tangency. A min. 25' taper will be required from these points to the edge of pavement.

Ref. Sec. 7-0105.1,
7-0406.7B

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SHOULDER STABILIZATION AT INTERSECTIONS

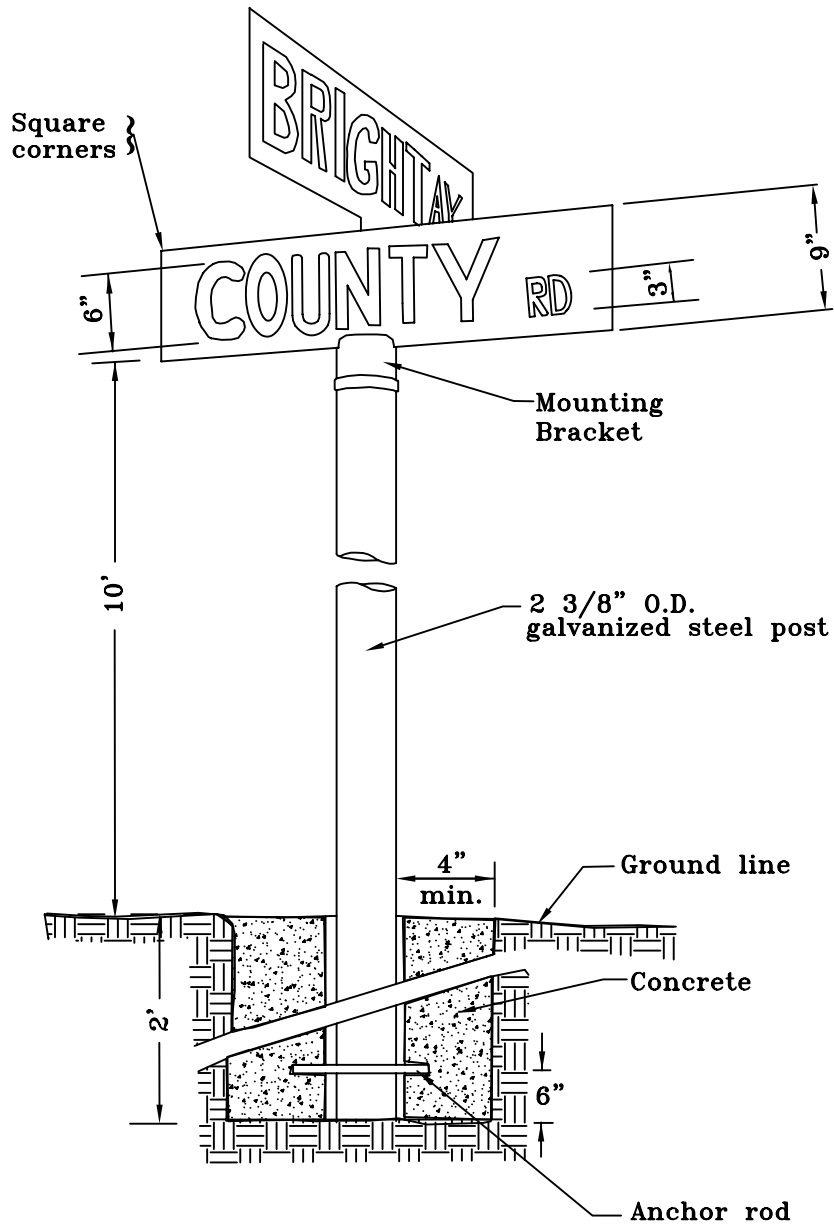
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STD. NO.

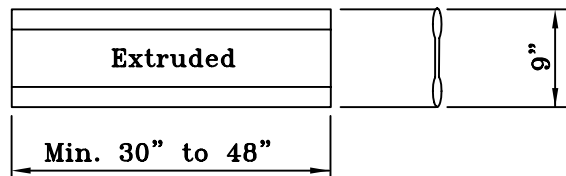
13-7

SS-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



NAME PLATE (Aluminum)



Ref. Sec. 7-0107.4,
7-0107.5, 7-0107.6F

Rev. 1-00, 2011 Reprint

STANDARD STREET NAME SIGN POST MOUNTED

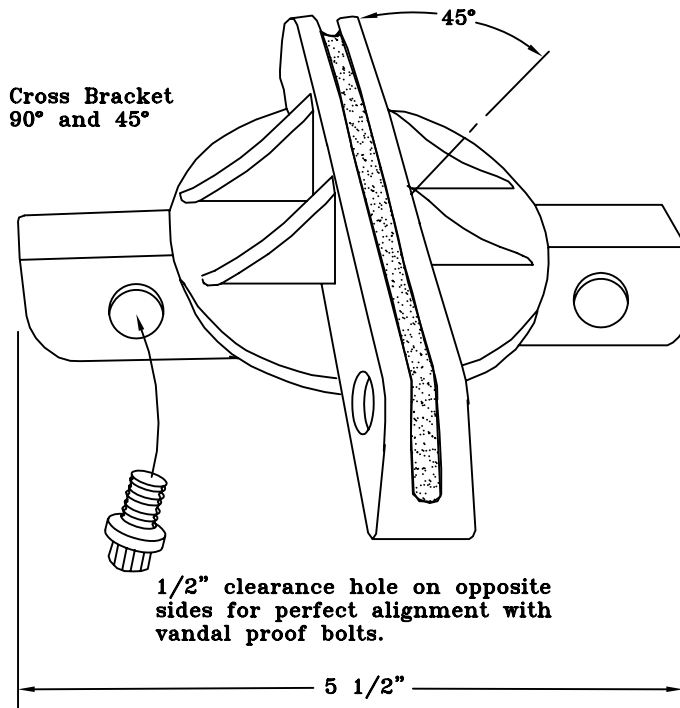
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STD. NO.

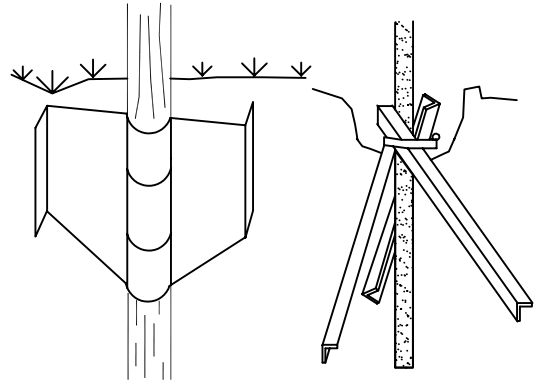
14-7

SNS-1

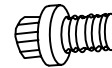
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



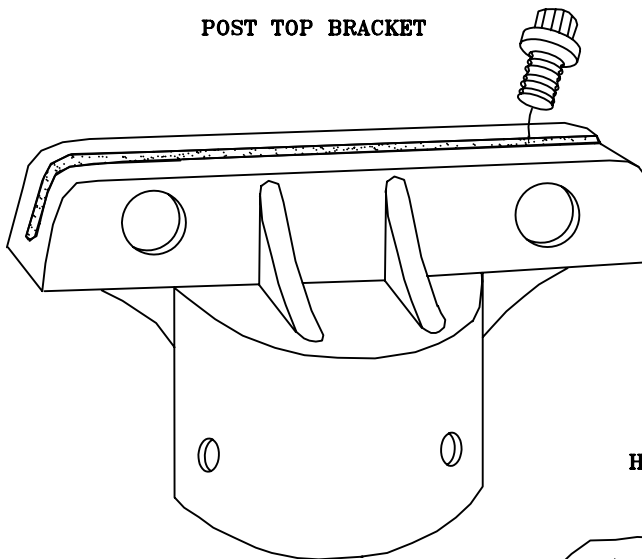
ALTERNATE POST ANCHORING DETAIL
(FOR ROUND POSTS)



VANDAL-PROOF SPLINE HEAD BOLT
WITH SHOULDER STOPS TO KEEP
SIGN FROM WIGGLING

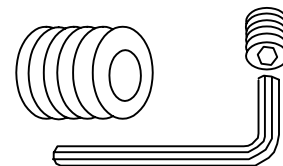


POST TOP BRACKET

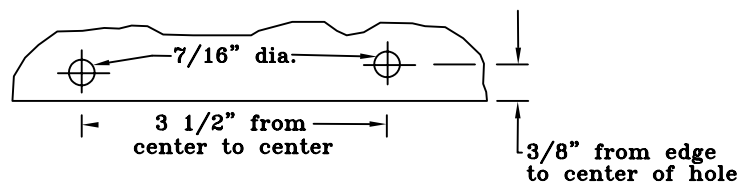


Holes for four hex head set screws with center pin are not to be less than 90° or more than 135° apart

VANDAL-PROOF HEX HEAD SET
SCREW WITH CENTER PIN



HOLE DETAIL FOR EXTRUDED
STREET NAME PLATE



Ref. Sec. 7-0107.4,
7-0107.5, 7-0107.6

STANDARD ALUMINUM STREET NAME SIGN BRACKET AND PLATE

PLATE NO.

STD. NO.

15-7

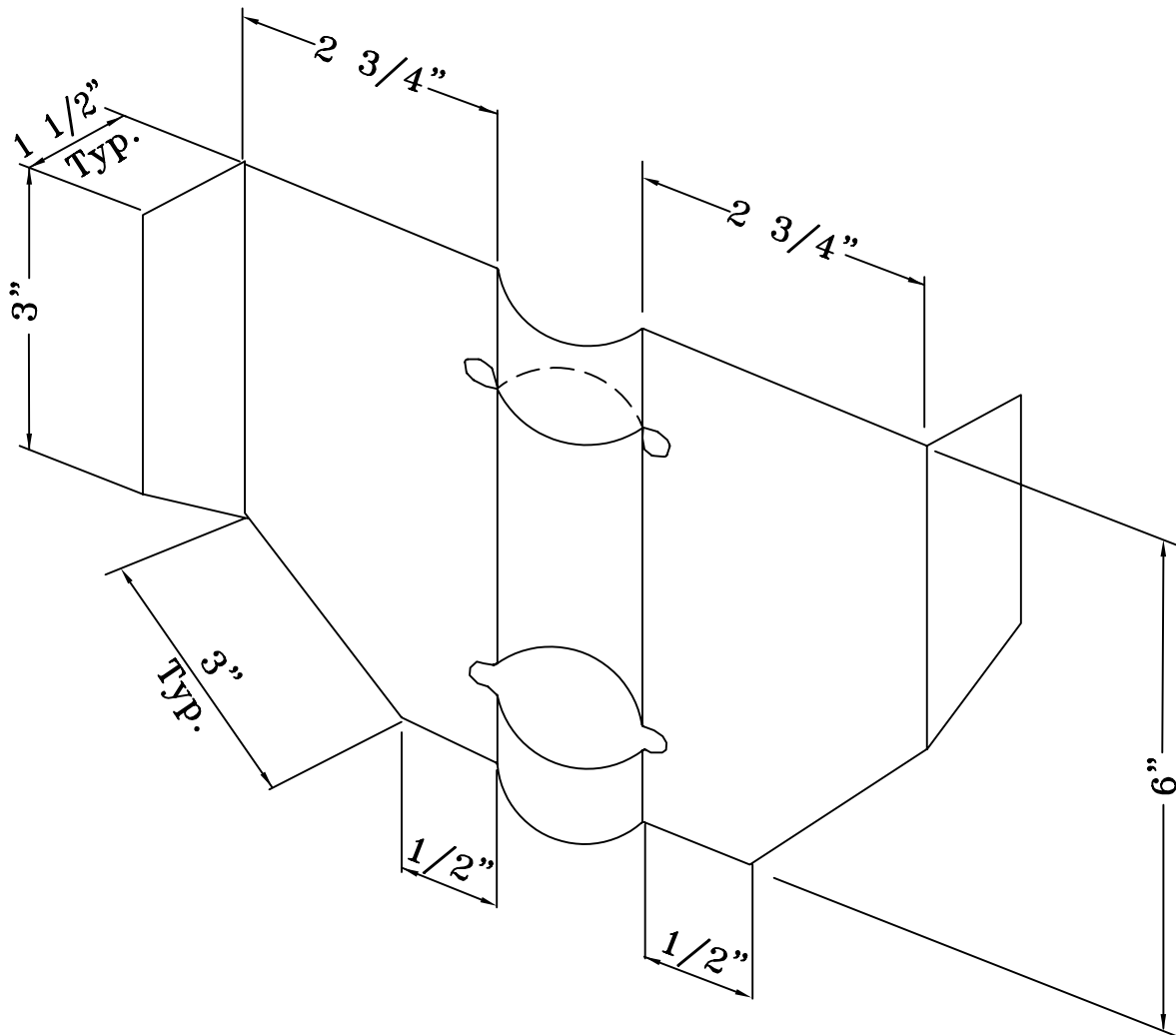
SNS-2

Rev. 1-00, 2011 Reprint

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

Z POST ANCHOR

Available in 2" OD or 2 1/2" OD size



13.5 GAUGE GALVANIZED METAL

Ref. Sec. 7-0107.4,
7-0107.5, 7-0107.6

Rev. 1-00, 2011 Reprint

ALTERNATE POST
ANCHORING DETAIL
FOR ROUND POST

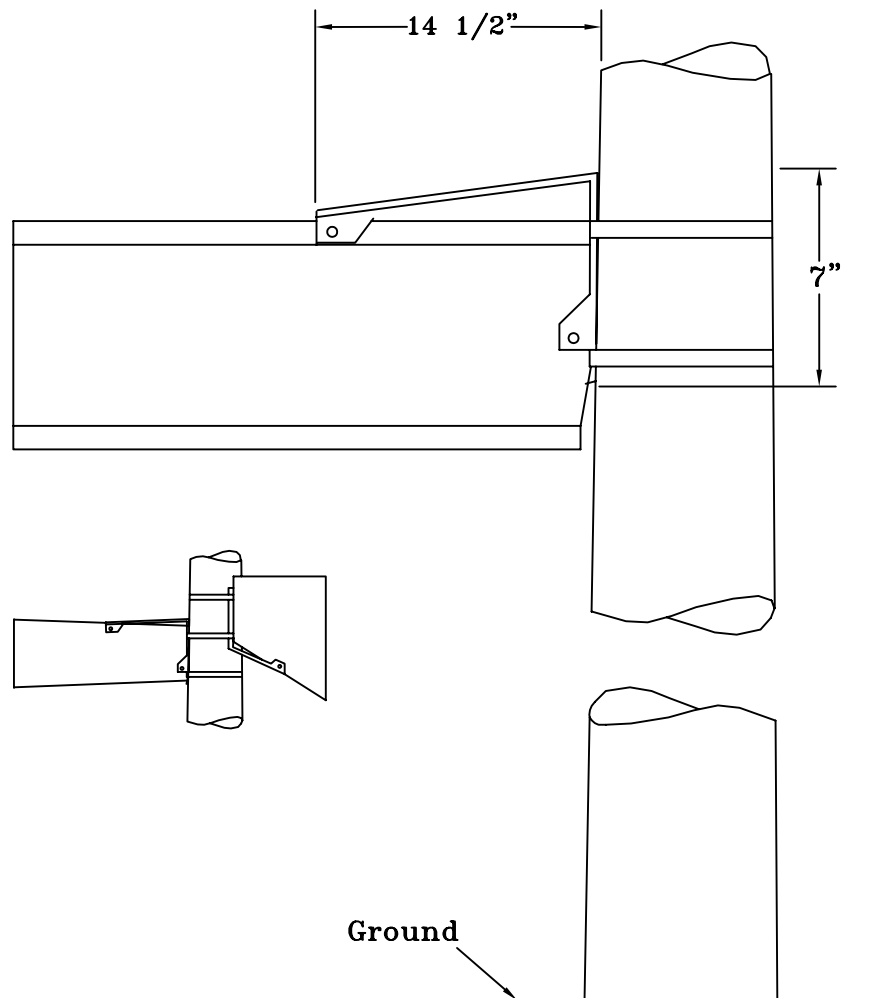
PLATE NO.

16-7

STD. NO.

SNS-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



At signalized intersections, street name signs for both streets will be installed on all vertical supports for the traffic signals. Signs will be mounted with standard aluminum cantilevered pole mounted street name brackets.

At signalized intersections, the bottom of the lowest street name sign will be 16' above ground level.

Ref. Sec. 7-0107.4,
7-0107.5, 7-0107.6

Rev. 1-00, 2011 Reprint

STANDARD ALUMINUM CANTILEVERED POLE MOUNTED STREET NAME WING BRACKET

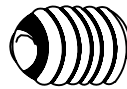
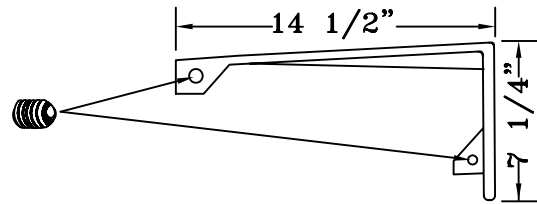
PLATE NO.

STD. NO.

17-7

SNS-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Exploded view of
sawtooth fastener

See specification for this
bracket in Section 7-0107.7

Ref. Sec. 7-0107.4,
7-0107.5, 7-0107.6,
7-0107.7

SPECIFICATIONS FOR CANTILEVERED POLE MOUNTED SIGN WING BRACKET

PLATE NO.

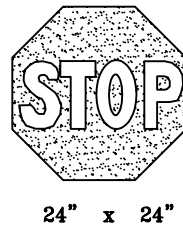
STD. NO.

18-7

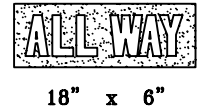
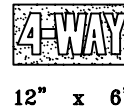
SNS-3

Rev. 1-00, 2011 Reprint

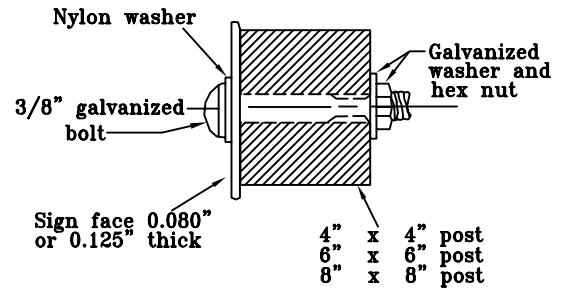
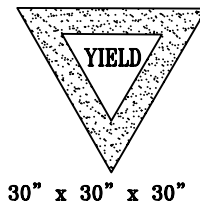
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



See multiway stop sign criteria on Plate 18B-7

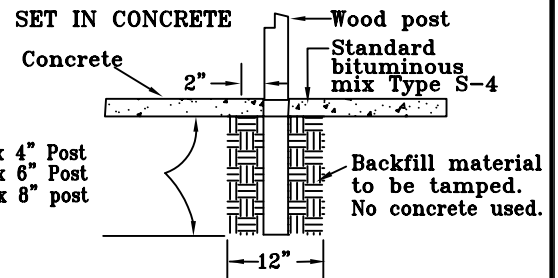
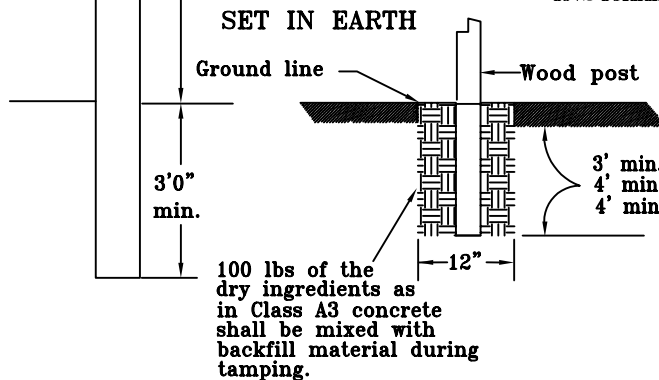


SIGN PANEL ATTACHMENT DETAIL WOOD POSTS



- (1) Reserve 18" above top of sign for mounting of 9"x 18" min. size route marker.
- (2) 24" stop or 30" yield sign location.
- (3) The lowest portion of stop/yield sign shall be placed a min. of 7' above the top of curb on streets with curb & gutter or above the nearest edge of pavement on streets without curb & gutter.
- (4) Signs are mounted on 4" x 4" salt treated unpainted wood posts unless otherwise directed by VDOT.

INSTALLATION DETAILS



Ref. Sec. 7-0107.4,
7-0107.5

Rev. 1-00, 2011 Reprint

TYPICAL DETAIL FOR STANDARD WOOD POST STOP & YIELD SIGNS

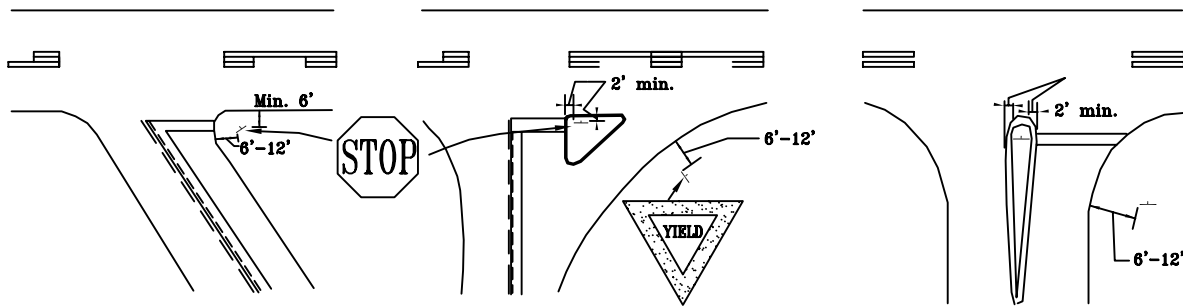
PLATE NO.

STD. NO.

18A-7

TCS-1

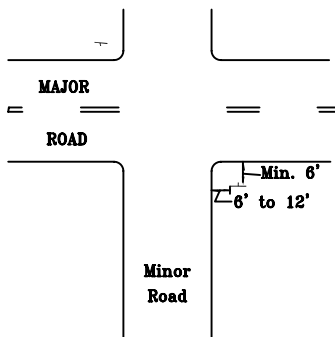
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



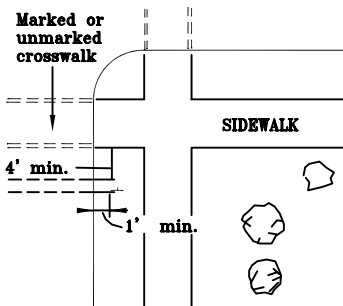
ACUTE ANGLE INTERSECTION

CHANNELIZED INTERSECTION

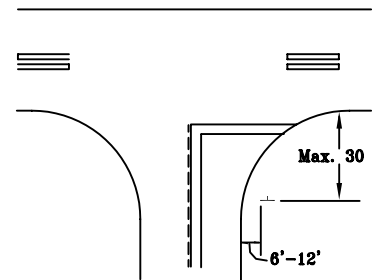
DIVISIONAL ISLAND



MINOR CROSSROAD

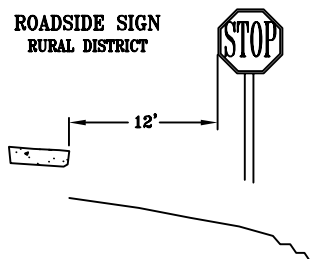


URBAN INTERSECTION



WIDE THROAT INTERSECTION

ROADSIDE SIGN
RURAL DISTRICT



MULTIWAY STOP SIGNS

The "Multiway Stop" installation is useful as a safety measure at some locations. It should ordinarily be used only where the volume of traffic on the intersecting roads is approximately equal. A traffic control signal is more satisfactory for an intersection with heavy volume of traffic.

Any of the following conditions may warrant a multiway STOP sign installation.

1. Where traffic signals are warranted and urgently needed, the multiway stop is an interim measure that can be installed quickly to control traffic while arrangements are being made for the signal installation.
2. An accident problem, as indicated by 5 or more reported accidents of a type susceptible of correction by a multiway stop installation in a 12-month period. Such accidents include right- and left-turn collisions as well as right-angle collisions.
3. Min. traffic volumes:
 - (a) The total vehicular volume entering the intersection from all approaches must average at least 500 VPH for any 8 hrs of an average day, and
 - (b) The combined vehicular and pedestrian volume from the minor street or highway must average at least 200 units per hr for the same 8 hrs, with an average delay to minor street vehicular traffic of at least 30 seconds per vehicle during the max. hr, but
 - (c) When the 85-percentile approach speed of the major street traffic exceeds 40 MPH, the min. vehicular volume warrant is 70% of the above requirements.

For placement of multiway stop sign identification plates reference the FHWA "Manual on Uniform Traffic Control Devices".

Ref. Sec. 7-0107.4,
7-0107.5, Plate 18A-7

Rev. 1-00, 2011 Reprint

TYPICAL LOCATIONS FOR STOP AND YIELD SIGNS

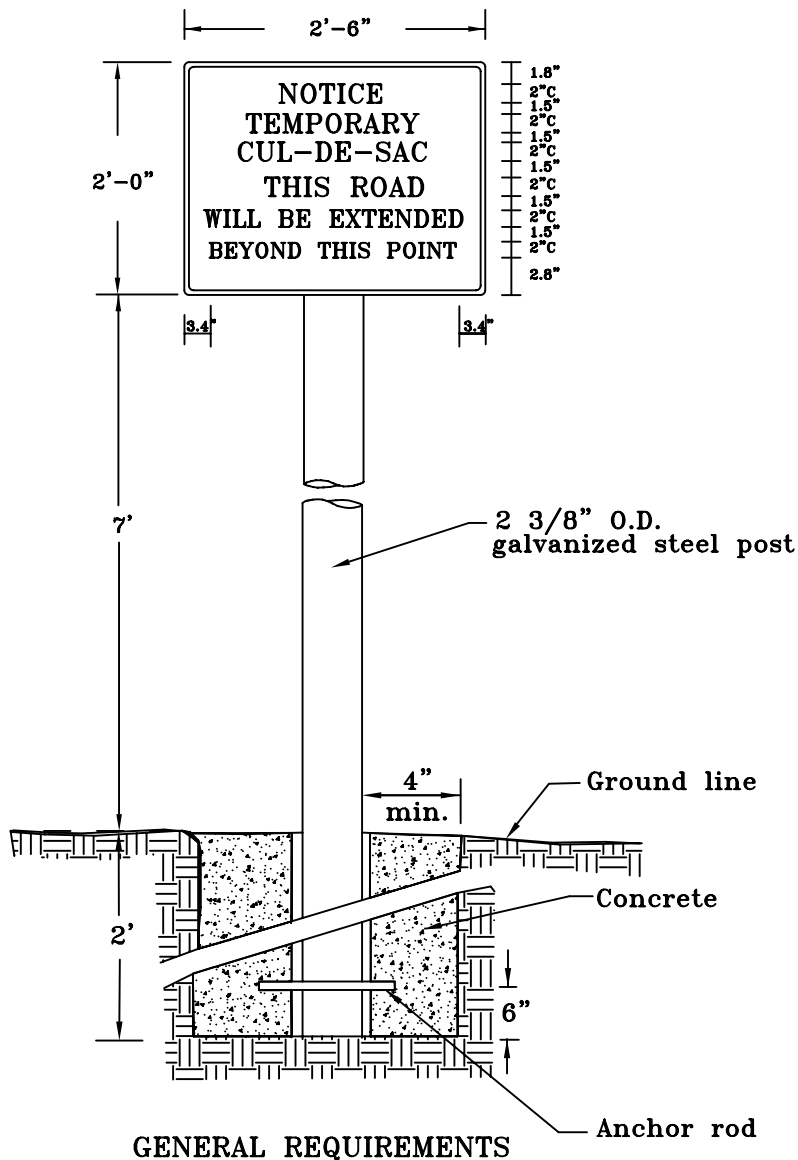
PLATE NO.

STD. NO.

18B-7

TCS-2

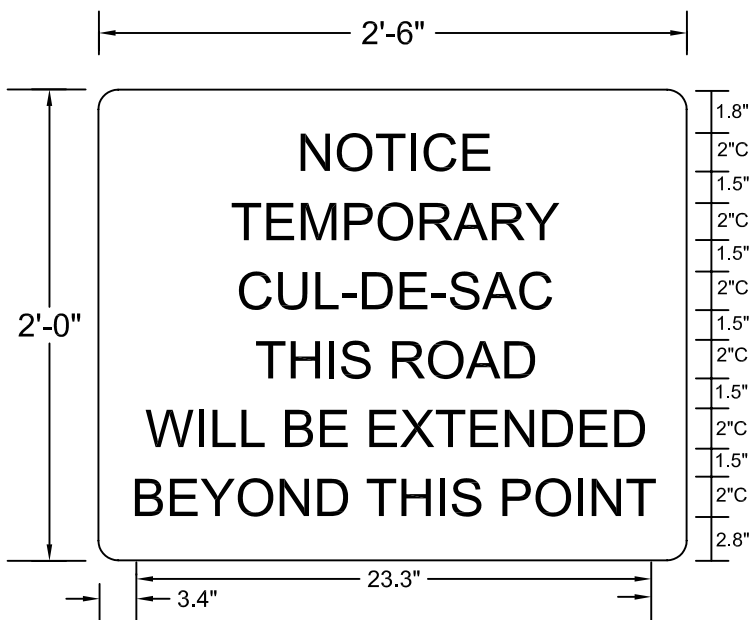
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



1. Sign blank is to be of aluminum, 0.08" thickness.
2. Sign colors shall be white lettering on blue background with white border, with face of reflective 3M capsulated sheeting or equal.
3. Alternate sign designs or specific text such as "Leavitt Road will be extended to Almquist Drive" may be provided if approved by the Director.

Ref. Sec. 7-0107.4, 7-0107.5, 7-0404.12A Rev. 6-04, 2011 Reprint	TEMPORARY CUL-DE-SAC SIGN	PLATE NO.	STD. NO.
		18C-7	PDS-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



SIGN NUMBER	name
WIDTH x HGHT.	2'-6" x 2'-0"
BORDER WIDTH	0.5"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Blue
LEGEND/BORDER	TYPE: Reflective
	COLOR: White

Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITION																	LENGTH	VDOT STANDARD SERIES SIZE
N	O	T	I	C	E													C2
11.3	12.8	14.3	15.6	16.3	17.7												7.5	
T	E	M	P	O	R	A	R	Y										C2
8.4	9.8	11.1	12.9	14.3	15.9	17.3	18.9	20.3									13.1	
C	U	L	-	D	E	-	S	A	C									C2
7.4	8.8	10.3	11.7	13.7	15.2	16.6	18.5	20.0	21.6								15.3	
T	H	I	S		R	O	A	D										C2
8.9	10.2	11.7	12.4	13.5	15.5	16.9	18.4	20.0									12.3	
W	I	L	L		B	E		E	X	T	E	N	D	E	D			C2
3.9	5.7	6.4	7.7	8.7	10.7	12.3	13.3	15.3	16.6	18.0	19.3	20.7	22.2	23.7	25.1		22.3	
B	E	Y	O	N	D		T	H	I	S		P	O	I	N	T		C2
3.4	4.9	6.1	7.7	9.3	10.8	11.9	13.9	15.2	16.7	17.4	18.5	20.5	21.9	23.5	24.2	25.7	23.3	

Ref. Sec. 7-0107.4,
7-0107.5,7-0404.12A,

TEMPORARY CUL-DE-SAC SIGN DETAIL

PLATE NO.

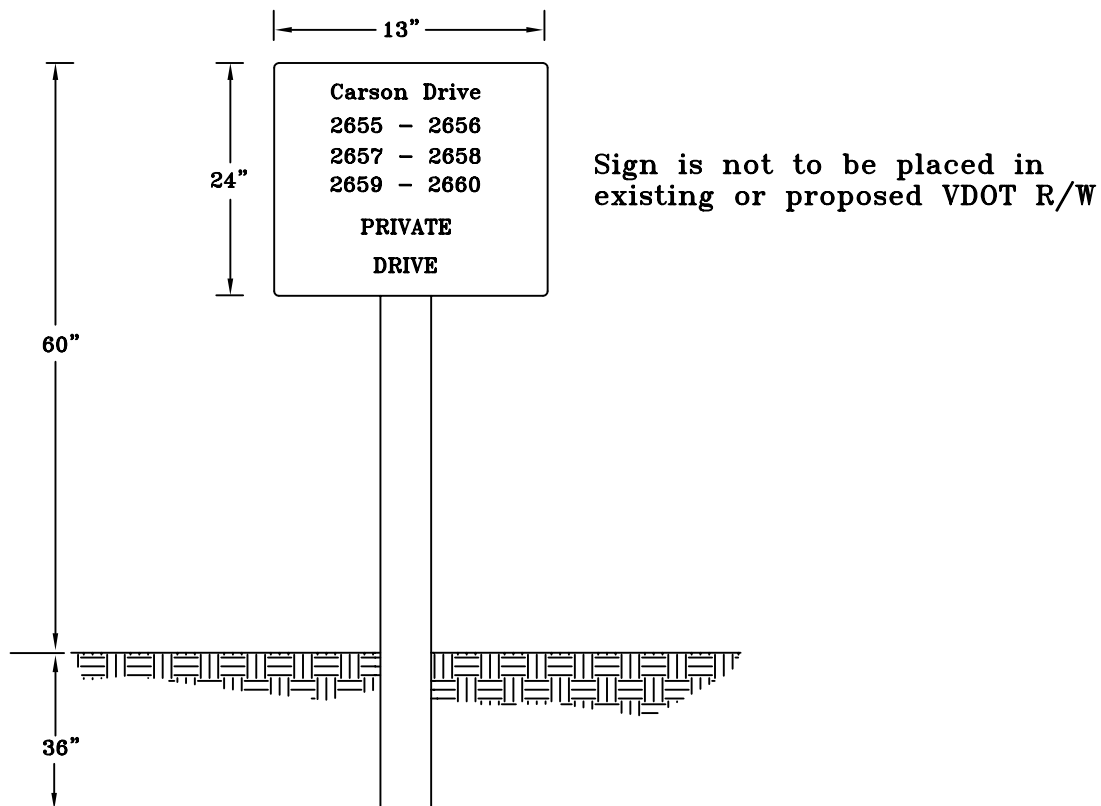
STD. NO.

18D-7

PDS-1

6-04, 2011 Reprint

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



GENERAL REQUIREMENTS

The pipestem driveway sign shall contain the street name, the house numbers and the words "Private Drive" or "Private Street".

The sign is to be placed on a 3" "U" channel post 8' long.

The sign is to be placed on the right side of the pipestem drive when site distance permits.

The sign shall be made with reflective materials and be green with white border and standard 2" lettering.

Alternate design may be approved by the Director.

Ref. Sec. 7-0107.4,
7-0107.5, 7-0903.2

Rev. 1-00, 2011 Reprint

PIPESTEM DRIVEWAY SIGN

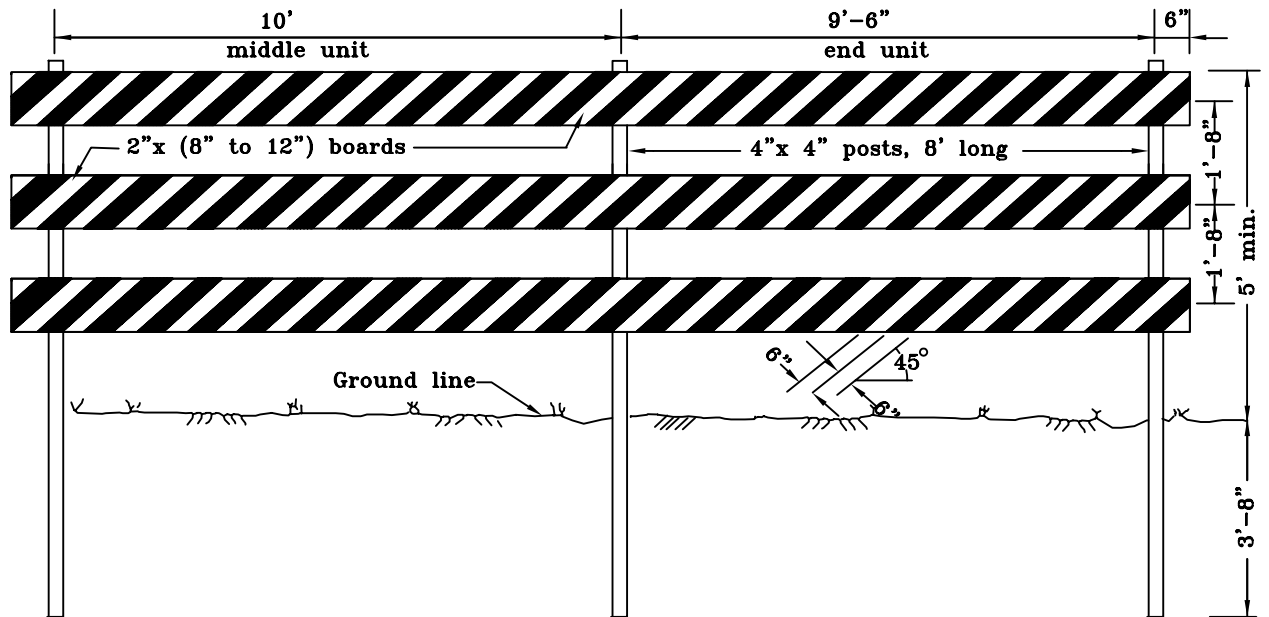
PLATE NO.

19-7

STD. NO.

PDS-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



This barricade is to be placed at the end of all dead end streets.

Lumber dimensions are nominal sizes.

The reflectorized area shall have a smooth, sealed encapsulated lens material outer surface. The predominant color for other barricade components shall be white, except that unpainted galvanized metal or aluminum components may be used. Because of their vulnerable position and possible hazard they could create, barricades should be constructed of light weight materials and have no rigid stay bracing.

Planks are to be fastened to posts with 2 - 3/8" x 6 1/2" carriage bolts and washers or with 2 - 7/16" x 4" lag screws and washers. Bolts and screws are not to be placed closer than 2" from the edge of planks.

The following note shall appear on all plans: "The barricade shall be removed at such time as the need no longer exists, as determined by the Director." If the barricade is within VDOT R/W, a permit is needed for its removal.

CHARACTERISTICS

Color of stripes	Reflectorized red and reflectorized white
Width of rail	8" min. - 12" max.
Number of reflectorized rail faces	3 if facing traffic in 1 direction 6 if facing traffic in 2 directions

This barricade and other traffic barricades are described in the latest edition of VDOT's Work Area Protection Manual Standards and Guidelines and MUTCD.

Ref. Sec. 7-0406.10

STANDARD TRAFFIC BARRICADE

Rev. 1-00

PLATE NO.

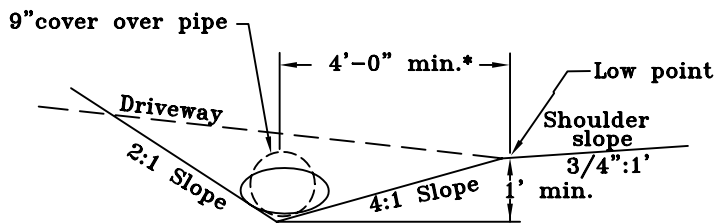
STD. NO.

20-7

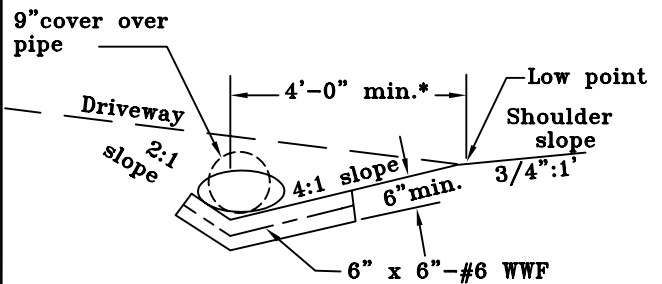
TB-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

DRIVEWAY CULVERT PIPE INSTALLATION

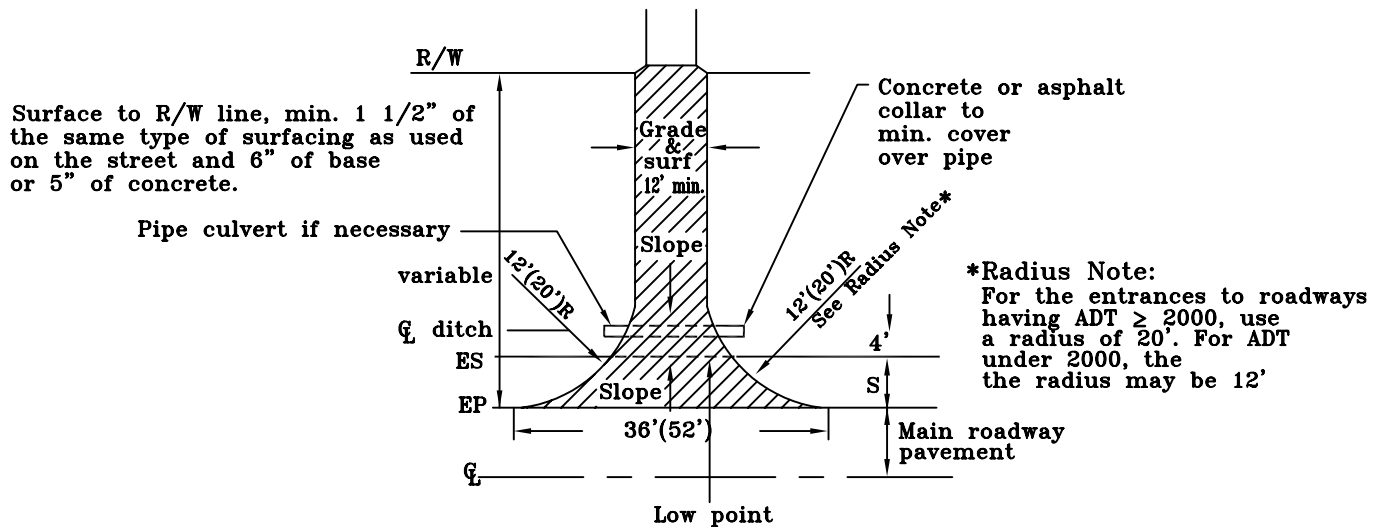


WITH UNPAVED ROADSIDE DITCH



WITH PAVED ROADSIDE DITCH

A paved ditch is required where soil conditions and runoff velocities will cause erosion.



Concrete pipe or corrugated metal pipe may be used. Indicate type and size on plans. Driveways shall be surfaced from edge of pavement to property line with the same type of surfacing as used on street.

All driveway grades shall start back of the shoulder line. In cut sections, sides of driveway shall be graded to a max. 3:1 slope. Lengths of culverts if not shown on plans shall be a min. of 20' For dimension of S, see Plate No. 1-7.

* Ditch line may be moved back to provide required cover. The transition of the ditch line shall be smooth with a min. length of 10'.

Driveway Clearances-

Grading plans must provide for adequate vehicular clearance for driveway approach, departure and breakover transitions. Driveway profiles are required when steep grades prevail.

All materials and construction of this design in a R/W to be maintained by VDOT shall conform to the current VDOT Road and Bridge Specifications and VDOT Road and Bridge Standards.

Ref. Sec. 7-0503.1A

Rev. 1-00, 11-05, 2011
Reprint

STANDARD DRIVEWAY ENTRANCE STREETS-NO CURB & GUTTER

PLATE NO.

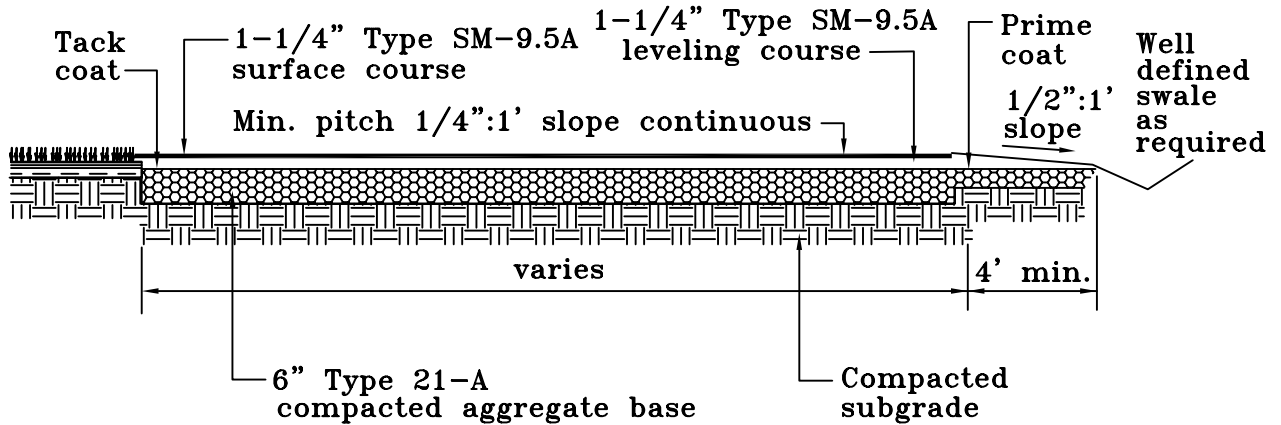
STD. NO.

22-7

DE-5

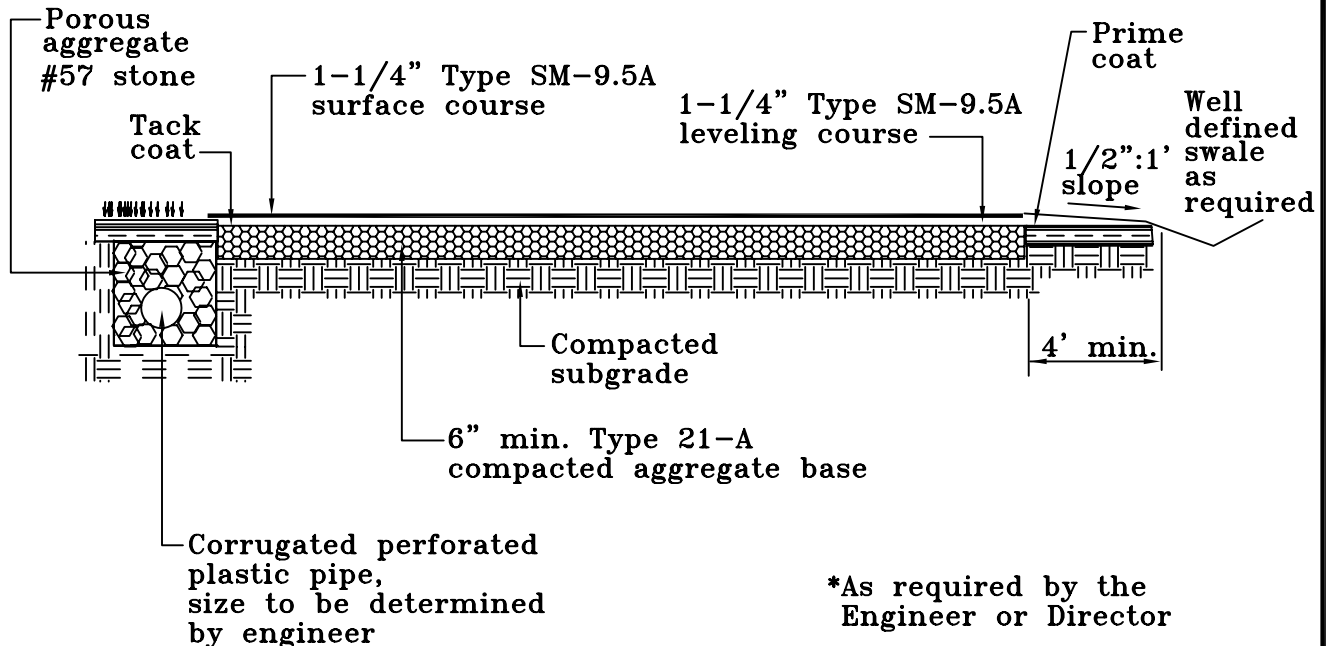
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

STANDARD PIPESTEM



NOTE: SEE SECTION 7-0503.2 FOR SUBGRADE, SUBBASE AND BASE MATERIAL PREPARATION AND PLACEMENT

HIGH WATER TABLE PIPESTEM*



Ref. Sec. 7-0503.2A,
7-0901, 7-0903. Plates
10-7, 11-7

Rev. 1-00, 2-06, 2011
Reprint

ASPHALT CONCRETE
PIPESTEM STANDARDS

PLATE NO.

STD. NO.

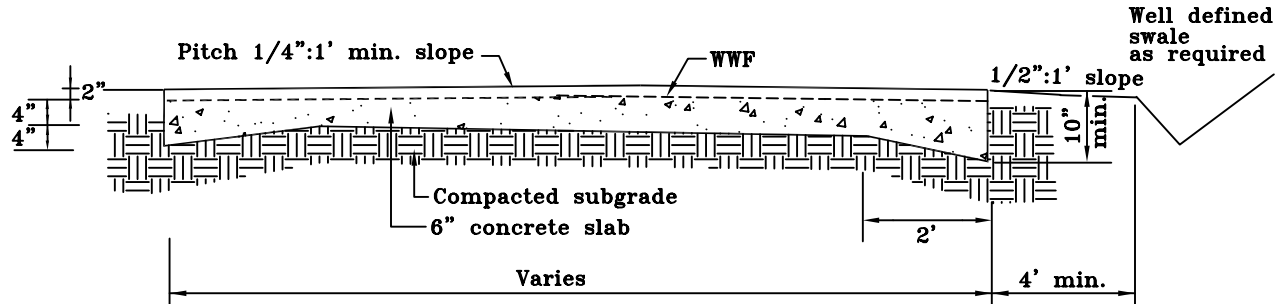
23-7

PS-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

WWF reinforcement shall consist of members rigidly attached at all joints or points of intersection. Longitudinal members shall be No. 2 gauge wire spaced at 6" OC. Transverse members shall be No. 4 gauge wire spaced at 12" OC. (Reinforcing Steel Institute designation 6 x 12 - W5.5 x W4)

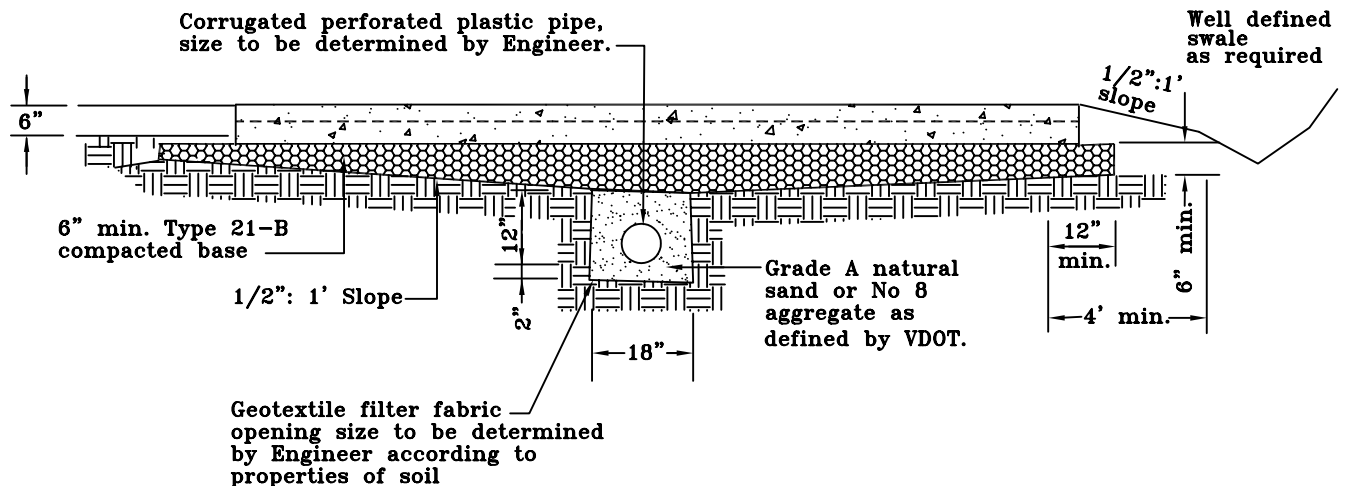
STANDARD PIPESTEM



Pipestem driveway underdrain is to be used when the driveway longitudinal gradient is 3% or more and when the underlying soil has 34% or more passing the No. 200 sieve and has a PI of 13 or less.

NOTE: SEE SECTION 7-0503.2 FOR SUBGRADE AND BASE MATERIAL PREPARATION AND PLACEMENT

HIGH WATER TABLE PIPESTEM



Ref. Sec. 7-0503.2A,
7-0901, 7-0903.2,
7-0903.2B, Plate 10-7,
11-7

Rev. 1-00, 2-06, 2011
Reprint

CONCRETE PIPESTEM STANDARDS

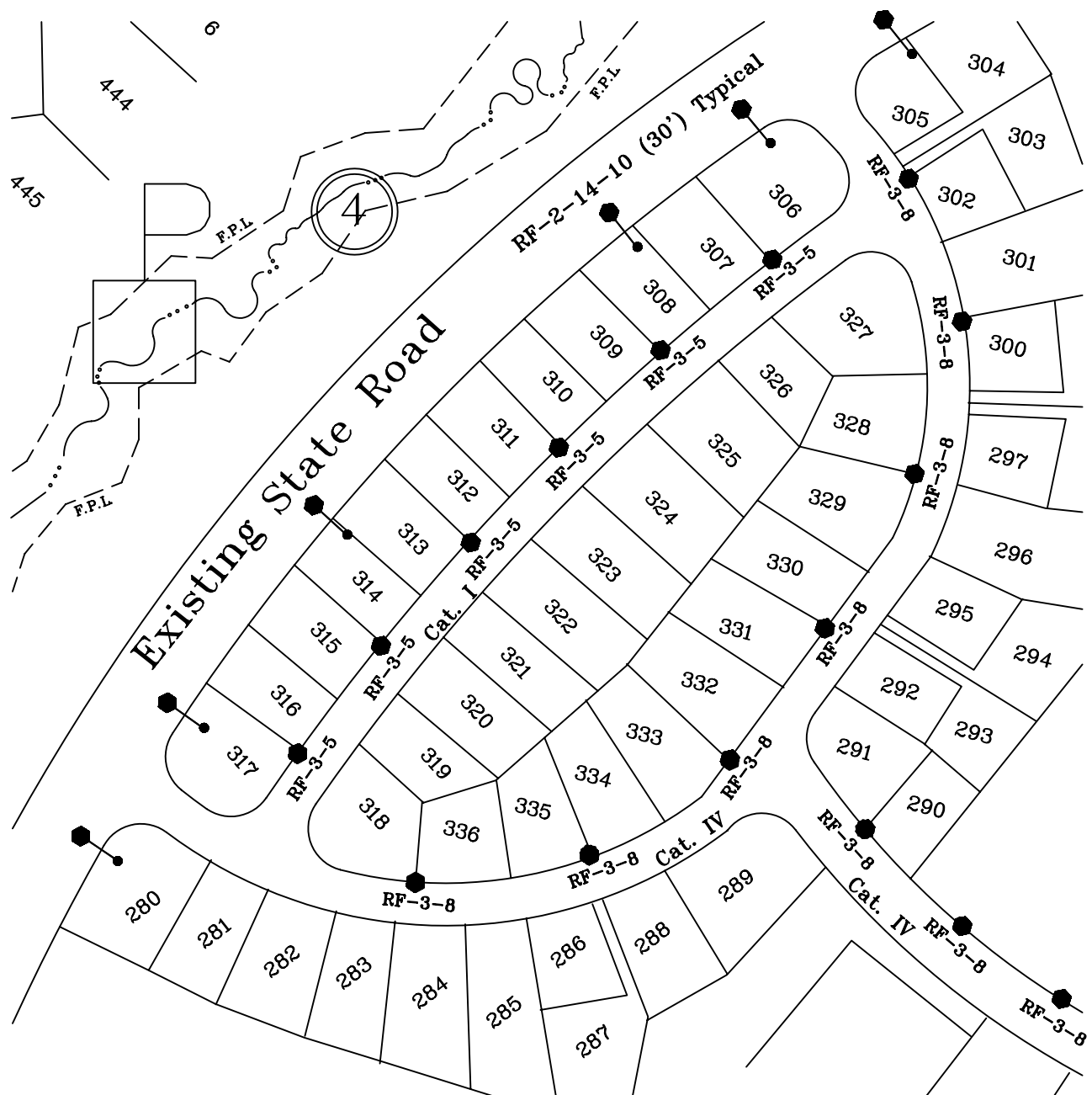
PLATE NO.

STD. NO.

24-7

PS-3A

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



This lighting layout applies to subdivisions that have lots that are less than 18,000 ft²

Ref. Sec. 7-1002.1A(3),
7-1006.1

Rev. 1-00, 2011 Reprint

TYPICAL LIGHTING LAYOUT NO. 1 (RESIDENTIAL SUBDIVISION)

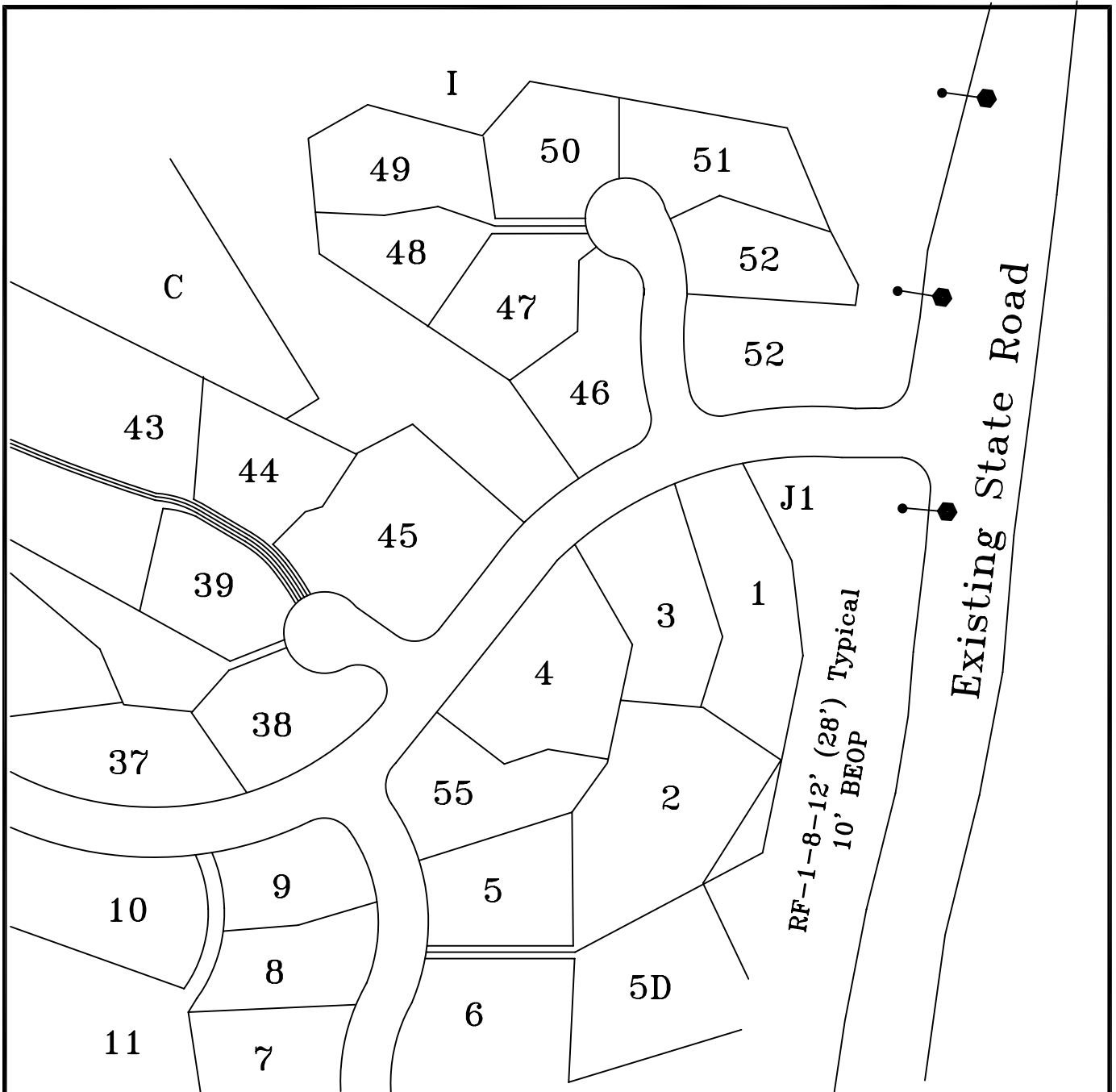
PLATE NO.

25-7

STD. NO.

TLL-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



This lighting layout applies to subdivisions that have lots that are 18,000 FT² or greater.

Ref. Sec. 7-1002.1B(3),
7-1006.2

Rev. 1-00, 2011
Reprint

TYPICAL LIGHTING LAYOUT NO. 2 (RESIDENTIAL SUBDIVISION)

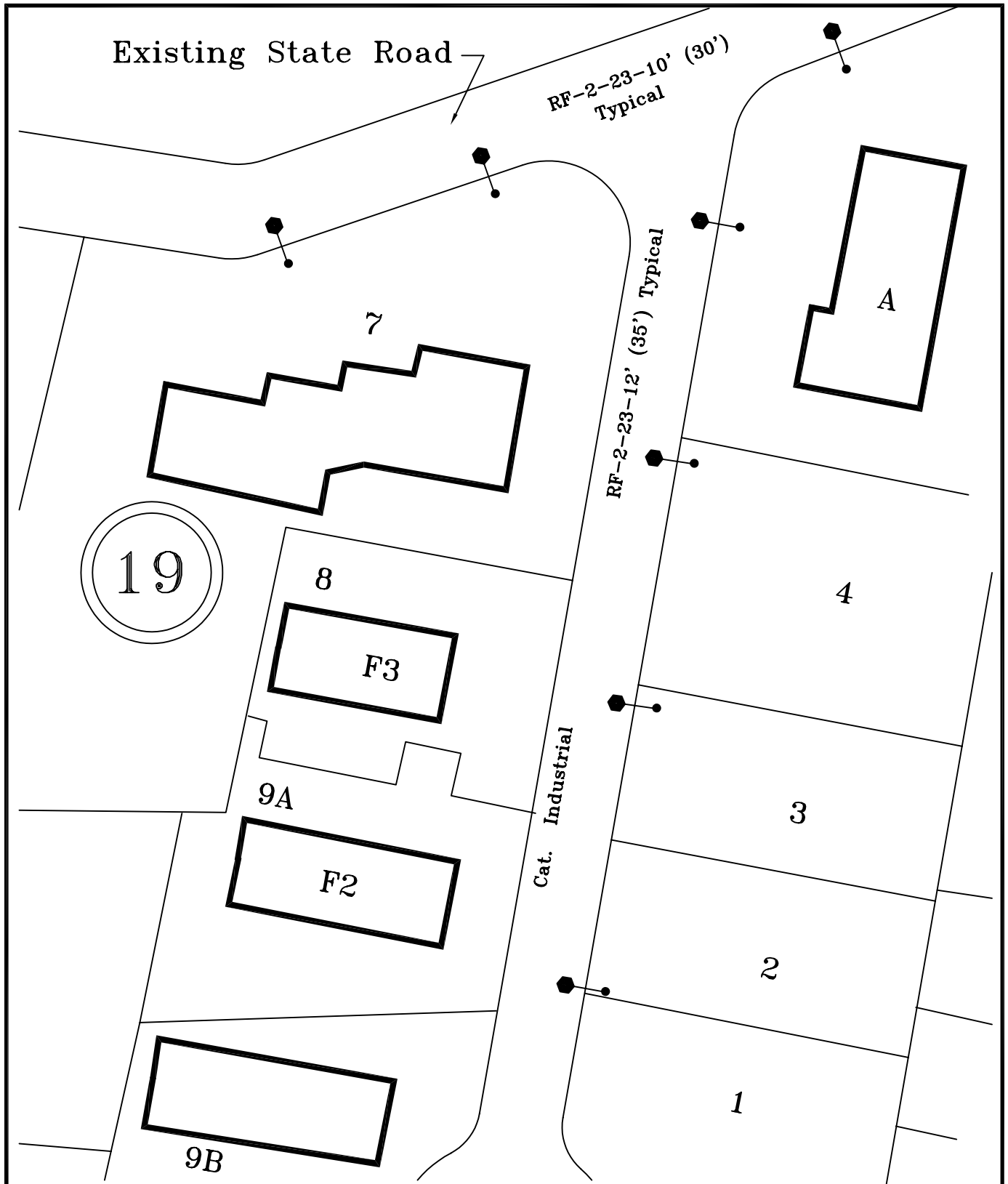
PLATE NO.

STD. NO.

26-7

TLL-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1002.2C,
7-1006.3

Rev. 1-00, 2011 Reprint

TYPICAL LIGHTING LAYOUT NO. 3 (COMMERCIAL/INDUSTRIAL SUBDIVISION)

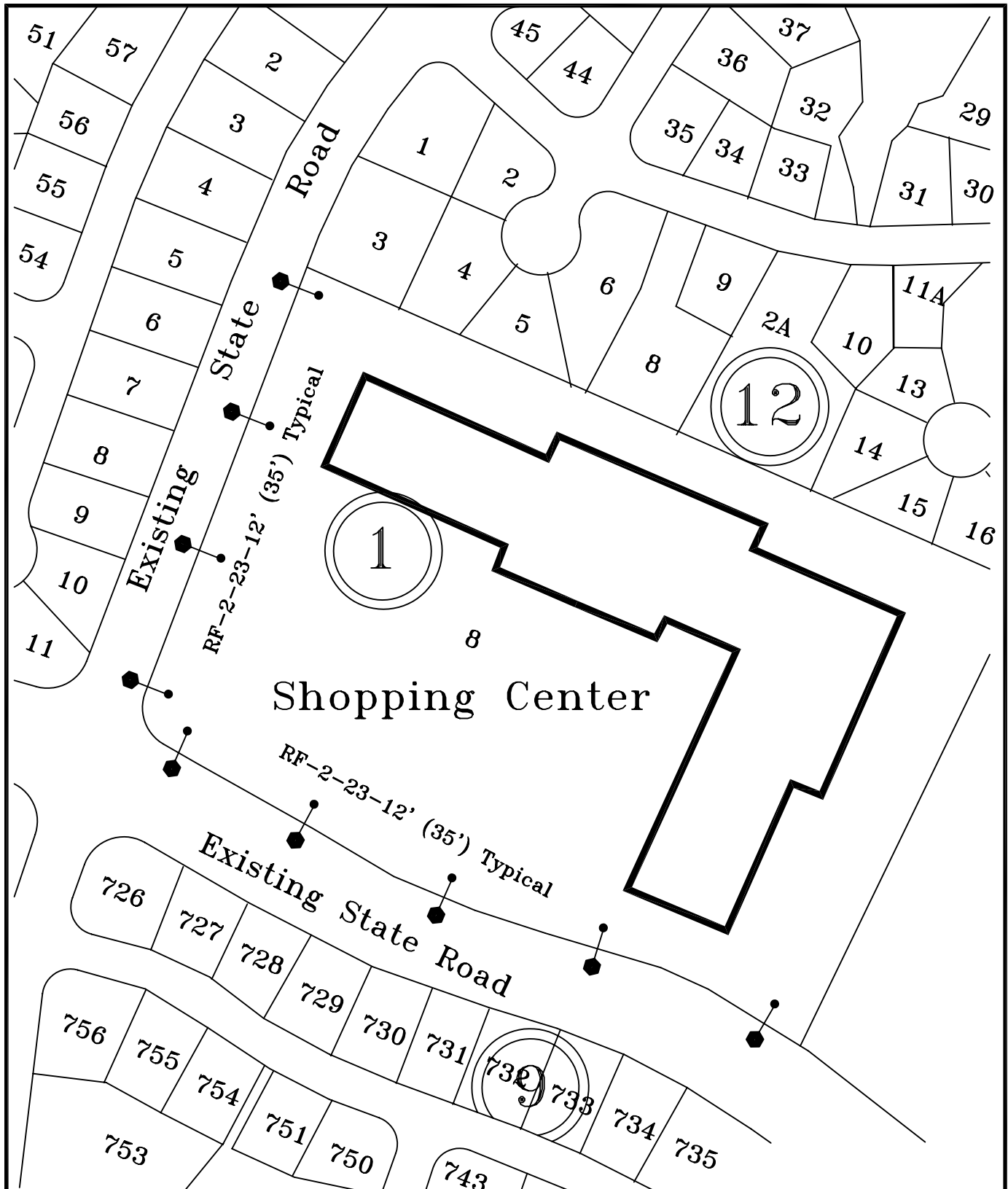
PLATE NO.

27-7

STD. NO.

TLL-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1002.3B,
7-1006.4

Rev. 1-00, 2011 Reprint

TYPICAL LIGHTING LAYOUT NO. 4 (SITE PLANS)

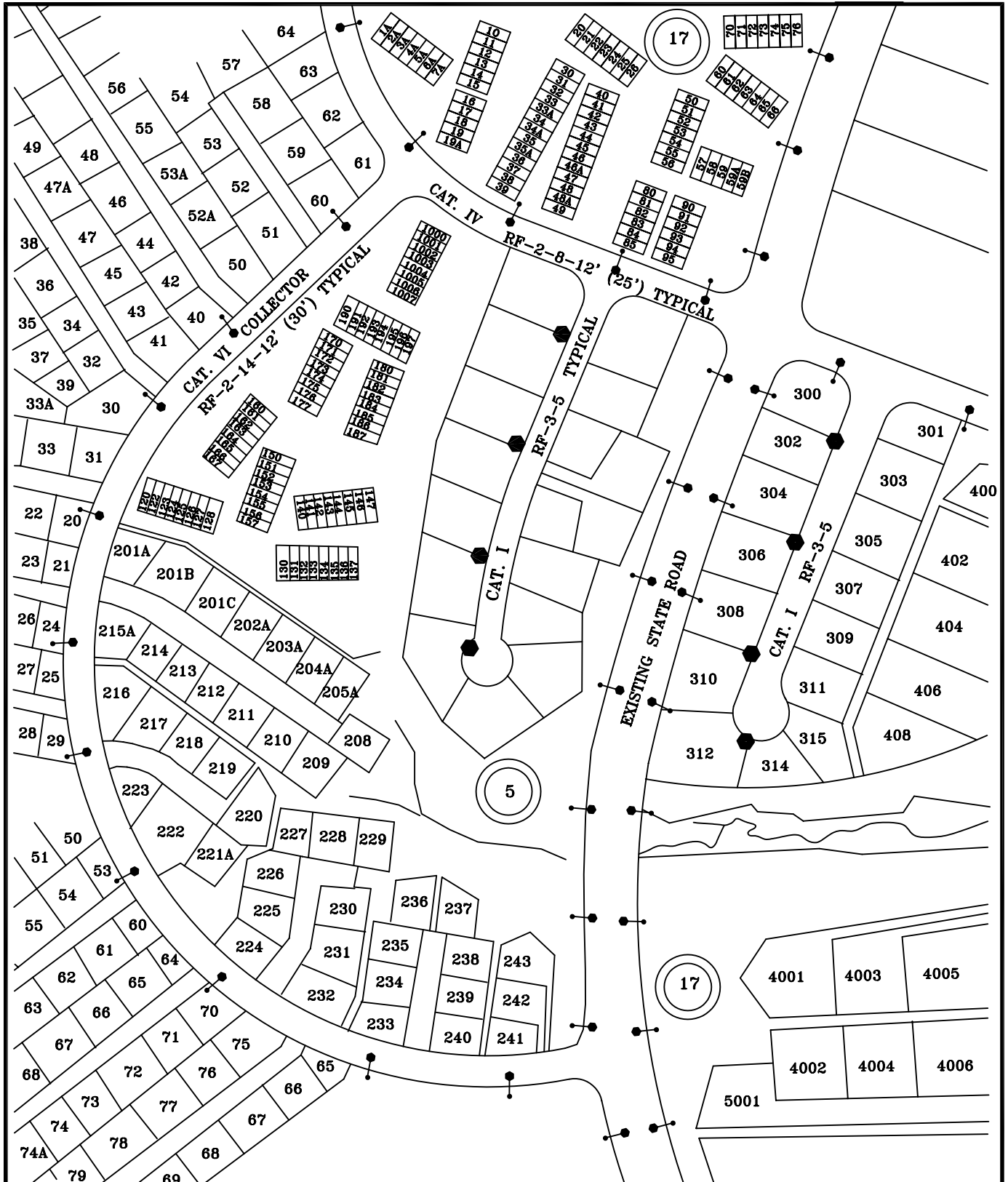
PLATE NO.

28-7

STD. NO.

TLL-4

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1002.4D,
7-1006.5

Rev. 1-00, 2011 Reprint

TYPICAL LIGHTING LAYOUT NO. 5 (PLANNED DEVELOPMENT)

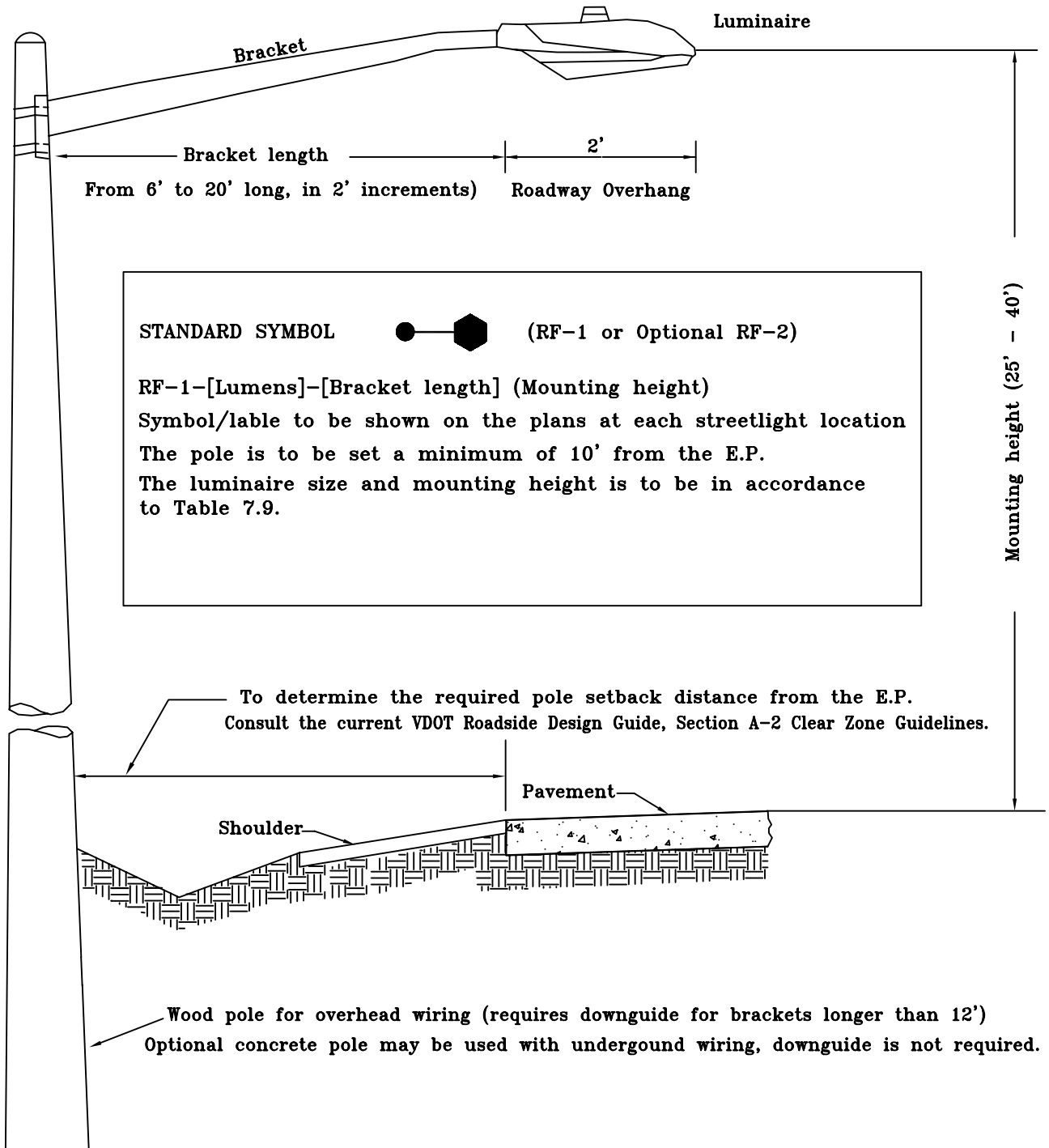
PLATE NO.

29-7

STD. NO.

TLL-5

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1004.6A

Rev. 1-00, 12-03, 2011
 Reprint, 2-12

STANDARD ROADWAY FIXTURE COBRA HEAD STYLE FOR DITCH SECTION ROADS

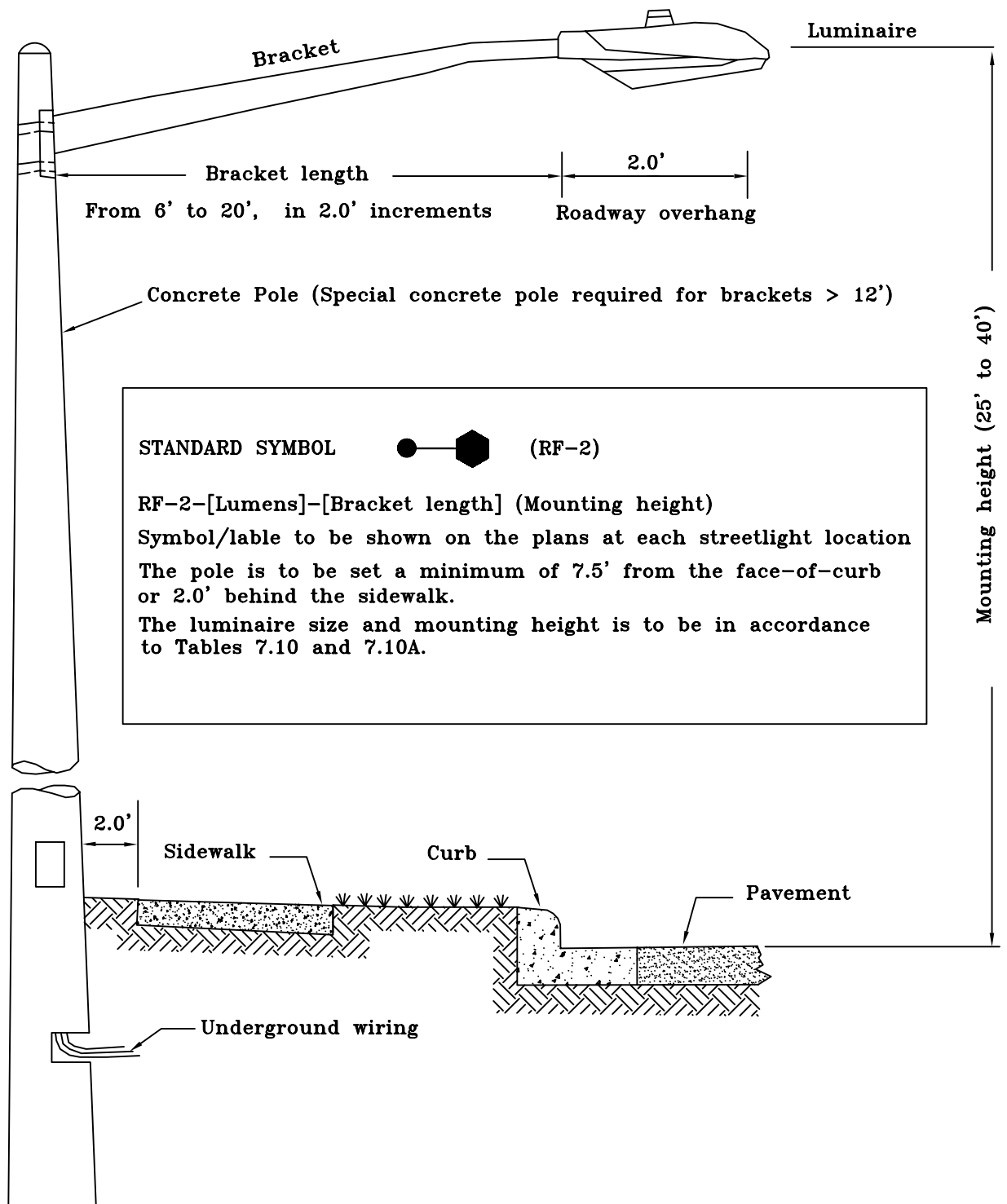
PLATE NO.

30-7

STD. NO.

RF-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1004.6B,
7-1004.7B, 7-1006.3

Rev. 1-00, 12-03, 2011
Reprint, 2-12

STANDARD ROADWAY FIXTURE COBRA HEAD STYLE FOR CURB AND GUTTER ROADS

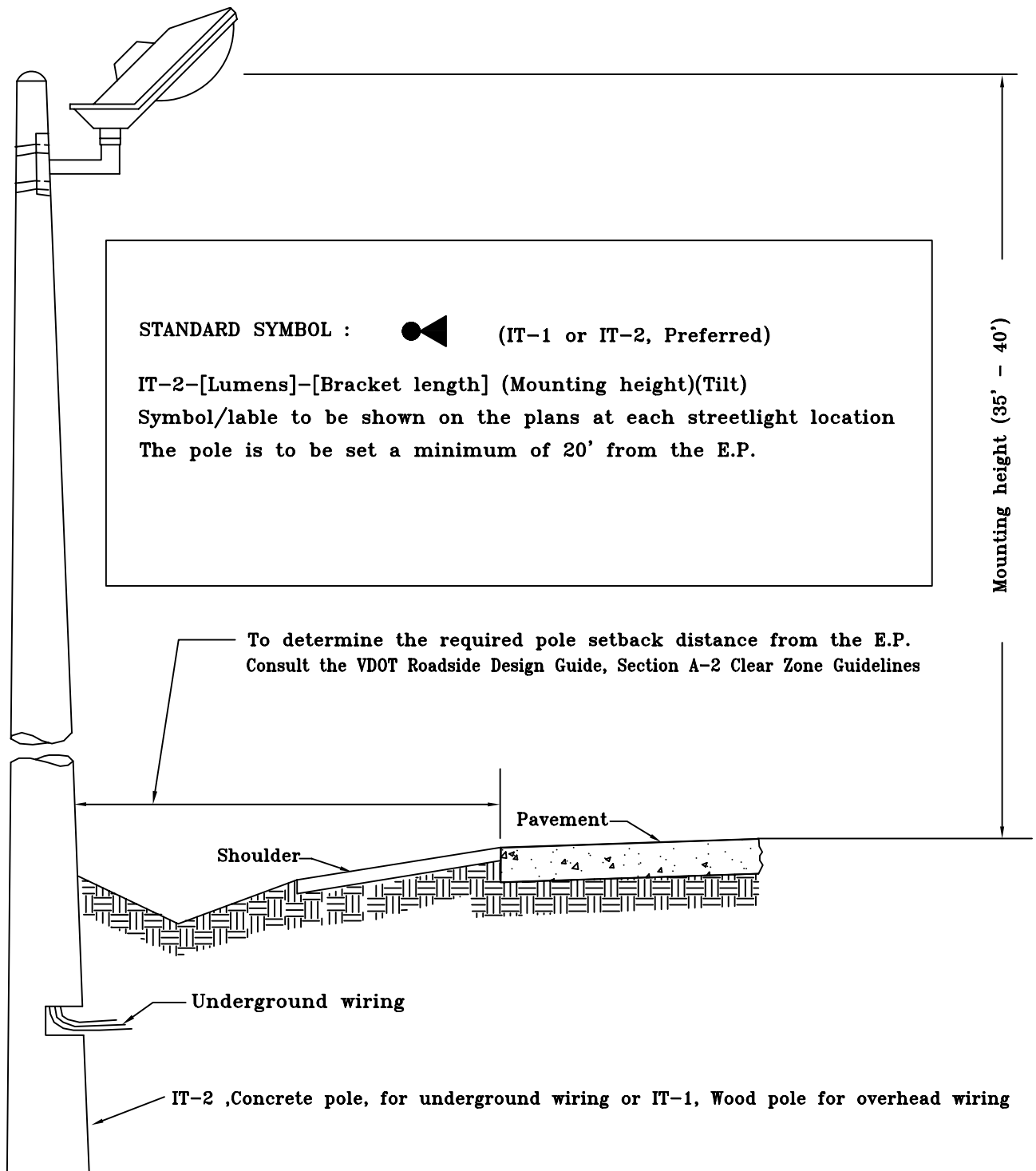
PLATE NO.

31-7

STD. NO.

RF-2

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Ref. Sec. 7-1004.1A(3)

Rev. 12-03, 10-06, 2011
Reprint

SPECIAL INTERSTATE ROADWAY FIXTURE FOR MAJOR ROADWAYS

PLATE NO.

31A-7

STD. NO.

IT-2

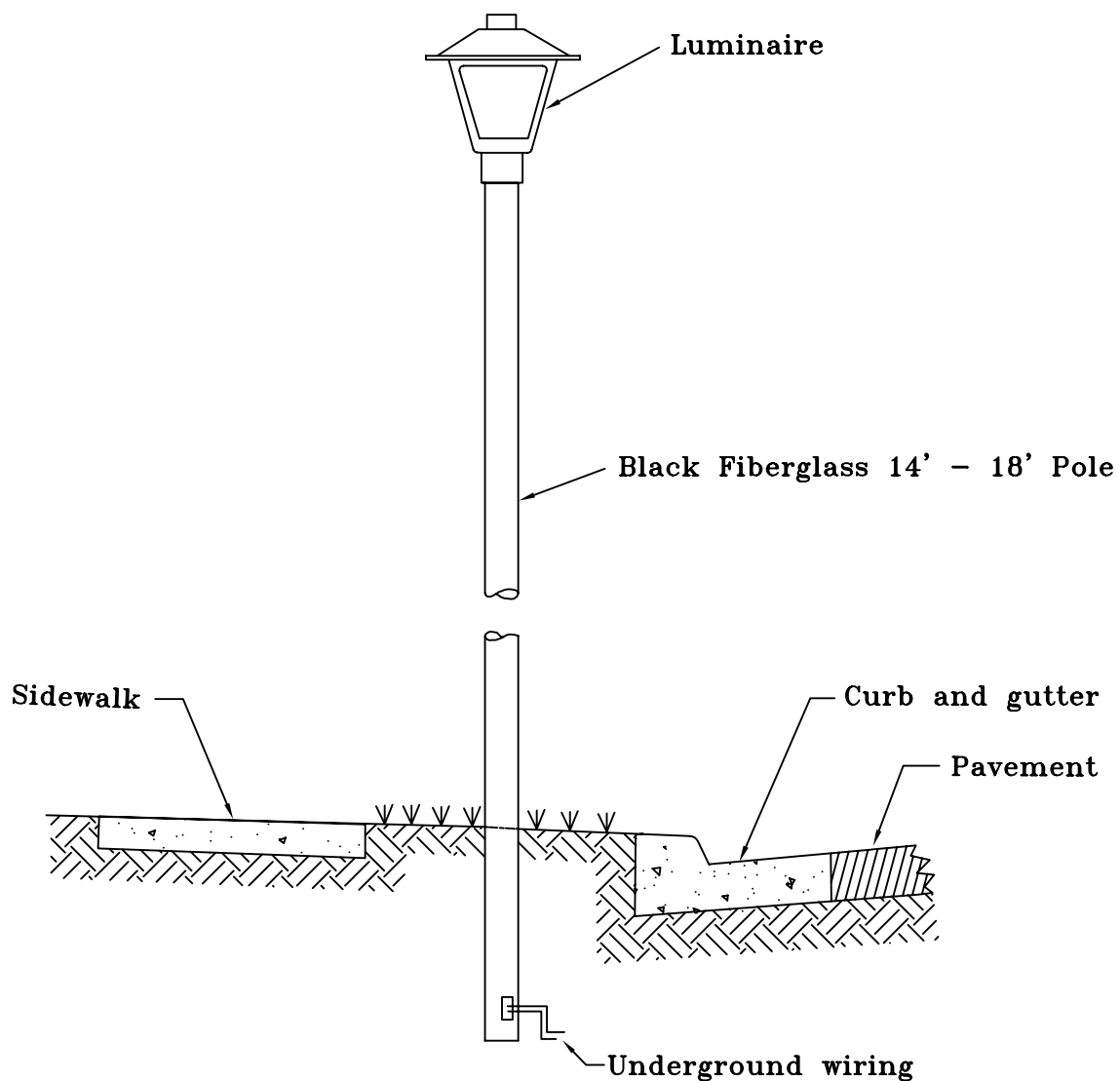
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

STANDARD SYMBOL (RF-3)

RF-3-[Lumen]-[Bracket Length] (Mounting Height)

Symbol/label to be shown on the plans at each streetlight location.
The pole is to be set in the utility strip
in accordance with VDOT clear zone requirements.

The luminaire size and mounting height are to be in accordance
to Table 7.11.



Ref. Sec. 7-1004.1A(2),
7-1004.6C, 7-1006.1B

Rev. 1-00, 11-05,
7-06, 2011 Reprint,
2-12

COLONIAL STYLE FIXTURE
FOR SUBDIVISION ROADWAYS
WITH CURB AND GUTTER

PLATE NO.

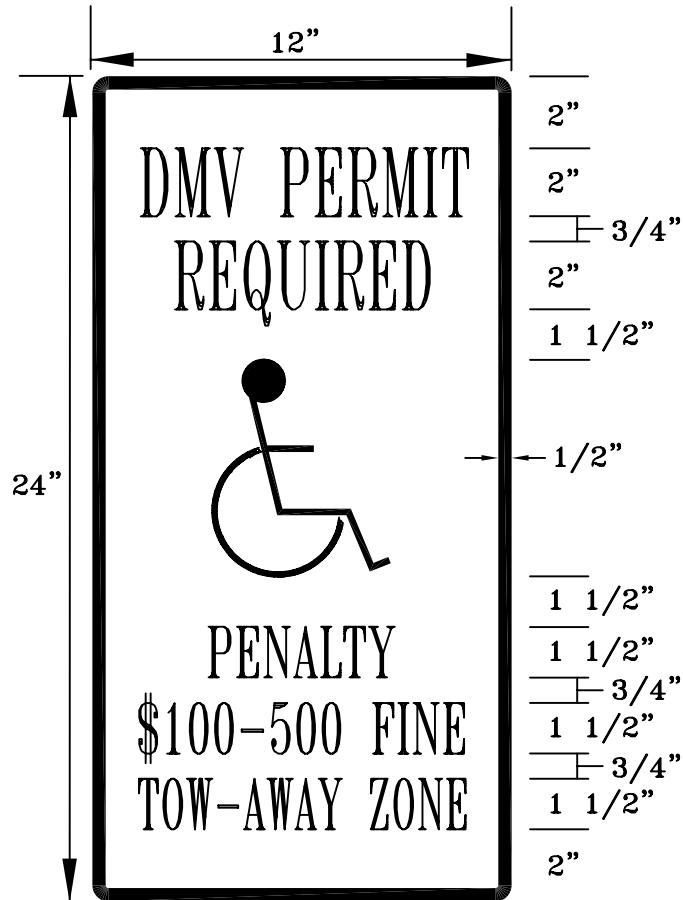
32-7

STD. NO.

RF-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

Note: Sign shall have white lettering on a blue background.



Ref. Sec. 7-0802.4

ACCESSIBLE PARKING SIGNS

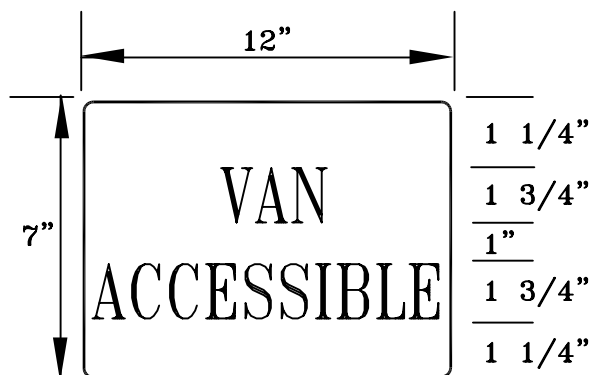
PLATE NO.

STD. NO.

Rev. 1-00, 2011 Reprint

32A-7

Note: Sign shall have white lettering on a blue background.



Ref. Sec. 7-0802.4

VAN ACCESSIBLE PARKING SIGNS

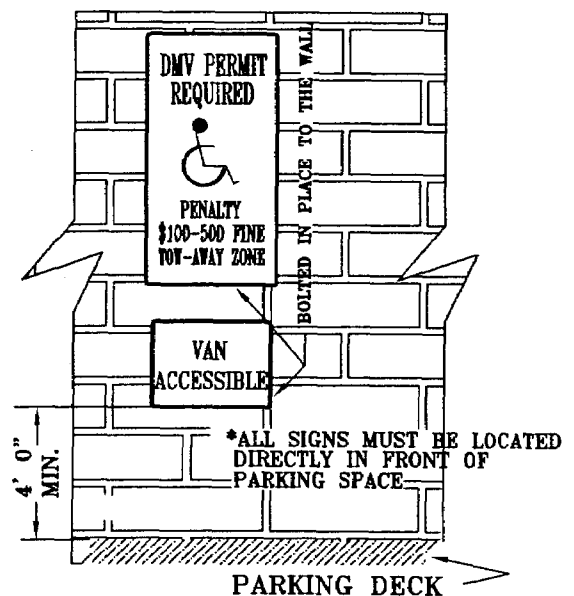
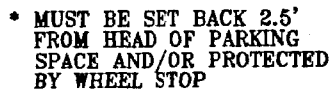
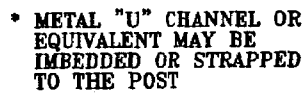
PLATE NO.

STD. NO.

Rev. 1-00, 2011 Reprint

32B-7

TYPICAL SIGN POST PLACEMENT IN PAVEMENT



NOTE: SIGN POSTED IN A
ROADWAY'S CLEAR ZONE MUST MEET
VDOT STANDARDS

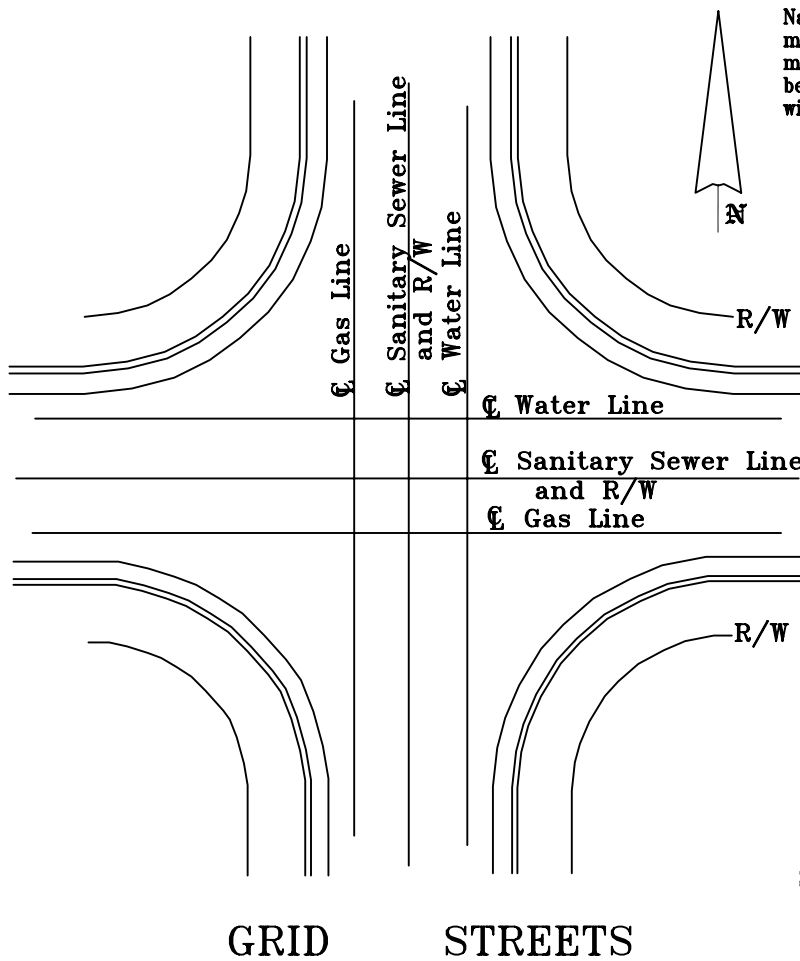
POSTING SIGNAGE FOR ACCESSIBLE PARKING

STD. NO.

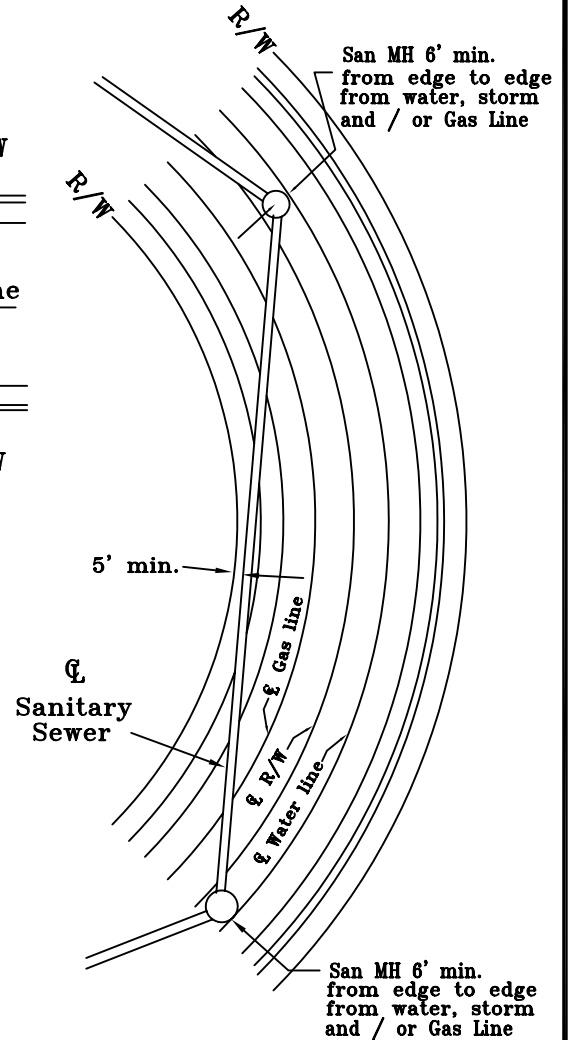
32C-7

Rev. 3-04

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Natural gas mains, at the discretion of the Director, may be installed with the centerline of the main a min. of 1' behind the curbline when it can be determined that subbase, base or surface paving will be placed prior to gas main installation.



Water mains shall be generally placed 8' North and/or East of the centerline of R/W. Gas mains shall be generally placed 8' South and/or West of the centerline of the R/W. Sanitary sewer lines shall generally be placed to follow the centerline of the R/W.

In order to reduce the number of MHs in curvilinear streets, MHs must be located within the pavement area but beyond the spread of stormwater gutter flow and a min. of 6' from edge to edge from the water, storm and gas pipes. The sanitary sewer pipe may be located anywhere within the R/W to within 5' of the R/W line.

Where it is necessary to cross the water line, the crossing shall be in accordance with the requirements of Section 12.05 of the Virginia Waterworks Regulations.

Ref. Sec. 7-1100

UTILITY LOCATIONS WATER, GAS, SEWER

PLATE NO.

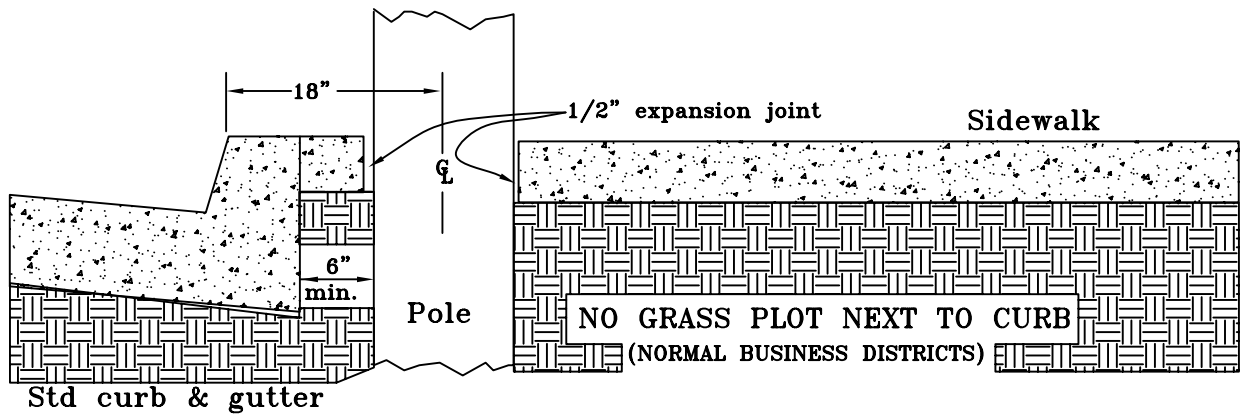
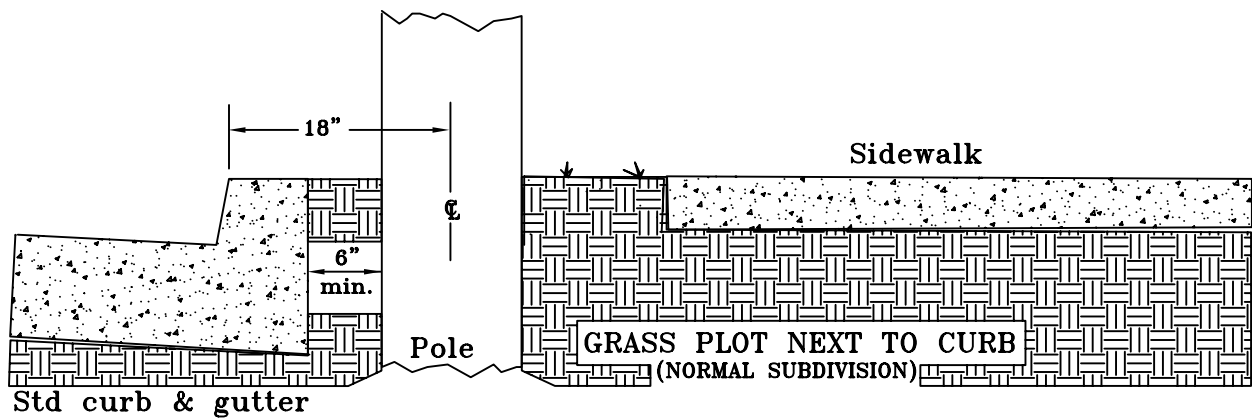
STD. NO.

Rev. 1-00

33-7

UL-1

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL



Poles shall be located behind the ditch line of ditch section streets.

Poles to be located within a R/W to be maintained by VDOT require a permit from VDOT.

Ref. Sec. 7-1100

Rev. 1-00

STANDARD POLE LOCATIONS

PLATE NO.

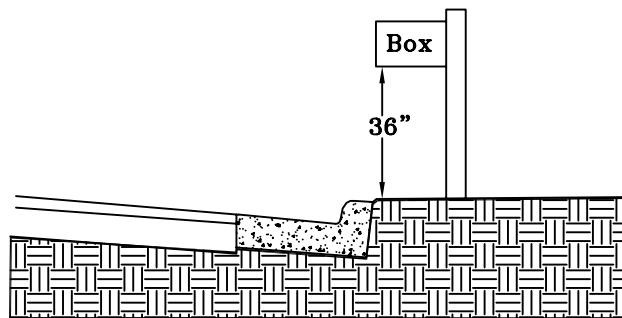
STD. NO.

34-7

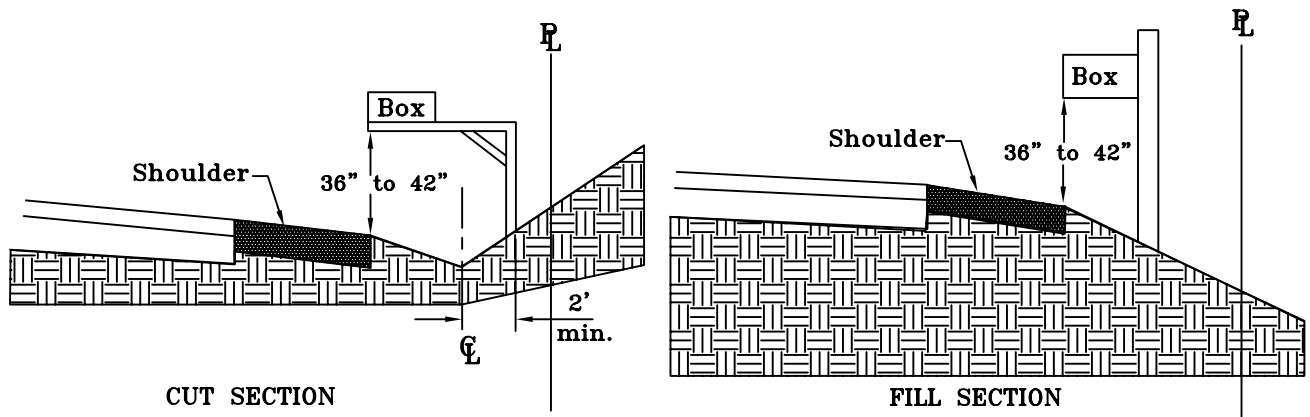
UL-3

FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

CURB AND GUTTER SECTION



DITCH SECTION STREET



Notes:

1. On ditch section streets, face of mail box to be in line with back edge of shoulder.
2. On ditch section streets in cut, support for mail box to be min. 2' to the outside of the ditch line.
3. On curb and gutter section streets, face of box to be in line with back edge of curb line.
4. Mail box height shall be:
 - A) On ditch section, 36" to 42" from shoulder grade to bottom of box.
 - B) On curb and gutter section, 36" from top of curb to bottom of box.
5. The face of the mail box and post shall be set, as shown on the fill section detail, within the radius of the DE-5 Entrance.

Ref. Sec. 7-1100

Rev. 1-00

MAIL BOX LOCATION

PLATE NO.

STD. NO.

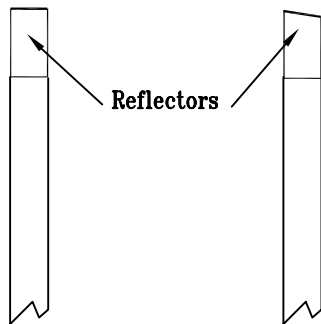
35-7

MB-1

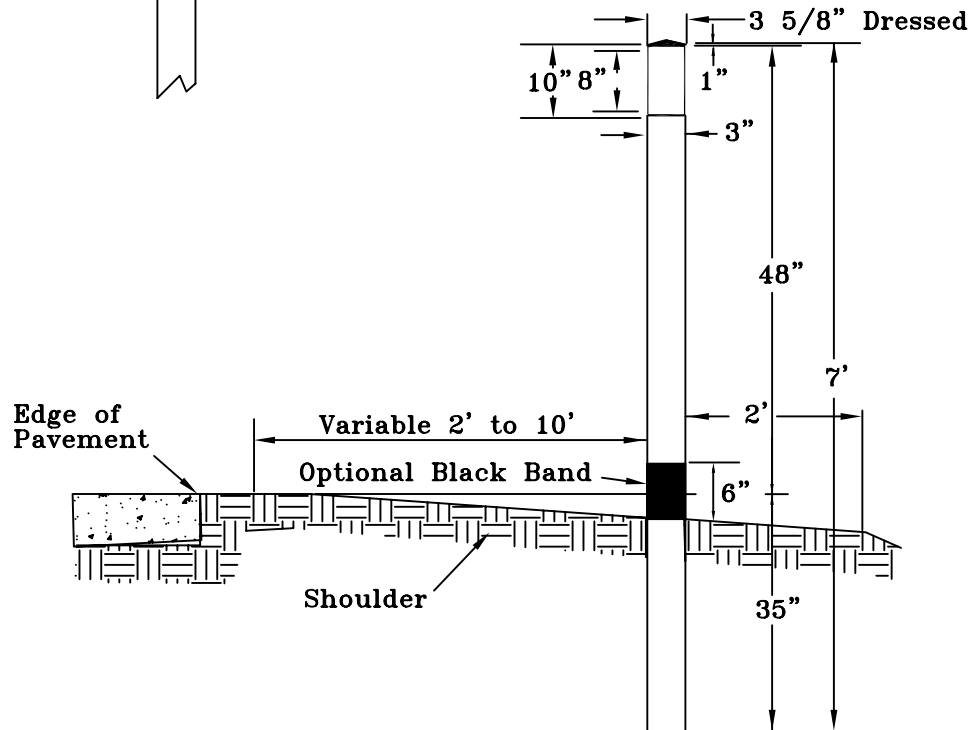
FAIRFAX COUNTY PUBLIC FACILITIES MANUAL

FLAT CUT

SHED CUT



PYRAMIDAL CUT



Location and spacing as
per approved plans

These delineators consist of reflectorized sheeting, cut to a 3" by 8" vertical rectangle, mounted on a backing of aluminum alloy, not less than 0.063" thick. The color of the reflective sheeting shall, in all cases, conform to the color of the edge-lines. The reflectors are attached to wood posts with aluminum alloy nails or screws. The top of the posts may have a flat, shed, or pyramid cut; however, they shall be uniform throughout a project. Material specifications may be found in the VDOT Road and Bridge Specifications.

Ref. Sec. 7-0404.21C(2),
7-1100

Rev. 1-00, 2011 Reprint

ROAD EDGE DELINEATOR

PLATE NO.

36-7

STD. NO.

RD-1